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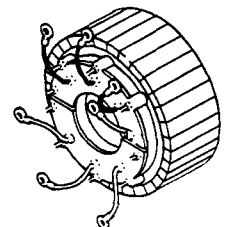
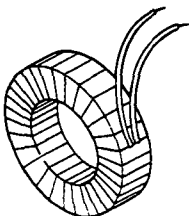
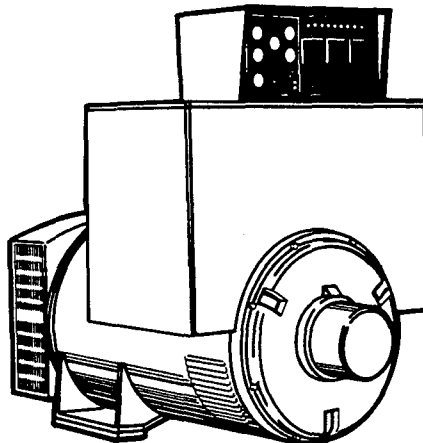
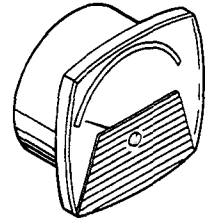
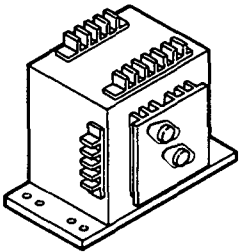
**Cummins  
Power  
Systems**

**Parts Catalog**

**VT28**

**VTA28**

**PMG Generator Set**



# Important Safety Precautions

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Read and observe these safety precautions when using or working on electric generators, engines and related equipment. Also read and follow the literature provided with the equipment.

Proper operation and maintenance are critical to performance and safety. Electricity, fuel, exhaust, moving parts and batteries present hazards that can cause severe personal injury or death.

## FUEL, ENGINE OIL, AND FUMES ARE FLAMMABLE AND TOXIC

Fire, explosion, and personal injury can result from improper practices.

- Used engine oil, and benzene and lead, found in some gasoline, have been identified by government agencies as causing cancer or reproductive toxicity. When checking, draining or adding fuel or oil, do not ingest, breathe the fumes, or contact gasoline or used oil.
- Do not fill tanks with engine running. Do not smoke around the area. Wipe up oil or fuel spills. Do not leave rags in engine compartment or on equipment. Keep this and surrounding area clean.
- Inspect fuel system before each operation and periodically while running.
- Equip fuel supply with a positive fuel shutoff.
- Do not store or transport equipment with fuel in tank.
- Keep an ABC-rated fire extinguisher available near equipment and adjacent areas for use on all types of fires except alcohol.
- Unless provided with equipment or noted otherwise in installation manual, fuel lines must be copper or steel, secured, free of leaks and separated or shielded from electrical wiring.
- Use approved, non-conductive flexible fuel hose for fuel connections. Do not use copper tubing as a flexible connection. It will work-harden and break.

## EXHAUST GAS IS DEADLY

- Engine exhaust contains carbon monoxide (CO), an odorless, invisible, poisonous gas. Learn the symptoms of CO poisoning.
- Never sleep in a vessel, vehicle, or room with a genset or engine running unless the area is equipped with an operating CO detector with an audible alarm.
- Each time the engine or genset is started, or at least every day, thoroughly inspect the exhaust system. Shut down the unit and repair leaks immediately.

- Warning: Engine exhaust is known to the State of California to cause cancer, birth defects and other reproductive harm.

*Make sure exhaust is properly ventilated.*

- Vessel bilge must have an operating power exhaust.
- Vehicle exhaust system must extend beyond vehicle perimeter and not near windows, doors or vents.
- Do not use engine or genset cooling air to heat an area.
- Do not operate engine/genset in enclosed area without ample fresh air ventilation.
- Expel exhaust away from enclosed, sheltered, or occupied areas.
- Make sure exhaust system components are securely fastened and not warped.

## MOVING PARTS CAN CAUSE SEVERE PERSONAL INJURY OR DEATH

- Do not remove any guards or covers with the equipment running.
- Keep hands, clothing, hair, and jewelry away from moving parts.
- Before performing any maintenance, disconnect battery (negative [-] cable first) to prevent accidental starting.
- Make sure fasteners and joints are secure. Tighten supports and clamps, keep guards in position over fans, drive belts, etc.
- If adjustments must be made while equipment is running, use extreme caution around hot manifolds and moving parts, etc. Wear safety glasses and protective clothing.

## BATTERY GAS IS EXPLOSIVE

- Wear safety glasses and do not smoke while servicing batteries.
- Always disconnect battery negative (-) lead first and reconnect it last. Make sure you connect battery correctly. A direct short across battery terminals can cause an explosion. Do not smoke while servicing batteries. Hydrogen gas given off during charging is explosive.
- Do not disconnect or connect battery cables if fuel vapors are present. Ventilate the area thoroughly.

## **DO NOT OPERATE IN FLAMMABLE AND EXPLOSIVE ENVIRONMENTS**

Flammable vapor can be ignited by equipment operation or cause a diesel engine to overspeed and become difficult to stop, resulting in possible fire, explosion, severe personal injury and death. **Do not operate diesel equipment where a flammable vapor environment can be created by fuel spill, leak, etc., unless equipped with an automatic safety device to block the air intake and stop the engine.**

## **HOT COOLANT CAN CAUSE SEVERE PERSONAL INJURY**

- Hot coolant is under pressure. Do not loosen the coolant pressure cap while the engine is hot. Let the engine cool before opening the pressure cap.

## **ELECTRICAL SHOCK CAN CAUSE SEVERE PERSONAL INJURY OR DEATH**

- Do not service control panel or engine with unit running. High voltages are present. Work that must be done while unit is running should be done only by qualified service personnel.
- Do not connect the generator set to the public utility or to any other electrical power system. Electrocutation can occur at a remote site where line or equipment repairs are being made. An approved transfer switch must be used if more than one power source is connected.
- Disconnect starting battery (negative [-] cable first) before removing protective shields or touching electrical equipment. Use insulative mats placed on dry wood platforms. Do not wear jewelry, damp clothing or allow skin surface to be damp when handling electrical equipment.
- Use insulated tools. Do not tamper with interlocks.
- Follow all applicable state and local electrical codes. Have all electrical installations performed by a qualified licensed electrician. Tag open switches to avoid accidental closure.
- With transfer switches, keep cabinet closed and locked. Only authorized personnel should have cabinet or operational keys. Due to serious shock hazard from high voltages within cabinet, all service and adjustments must be performed by an electrician or authorized service representative.

If the cabinet must be opened for any reason:

1. Move genset operation switch or Stop/Auto/Handcrank switch (whichever applies) to Stop.
2. Disconnect genset batteries (negative [-] lead first).
3. Remove AC power to automatic transfer switch. If instructions require otherwise, use extreme caution due to shock hazard.

## **MEDIUM VOLTAGE GENERATOR SETS (601V TO 15kV)**

- Medium voltage acts differently than low voltage. Special equipment and training are required to work on or around medium voltage equipment. Operation and maintenance must be done only by persons trained and qualified to work on such devices. Improper use or procedures will result in severe personal injury or death.
- Do not work on energized equipment. Unauthorized personnel must not be permitted near energized equipment. Induced voltage remains even after equipment is disconnected from the power source. Plan maintenance with authorized personnel so equipment can be de-energized and safely grounded.

## **GENERAL SAFETY PRECAUTIONS**

- Do not work on equipment when mentally or physically fatigued or after consuming alcohol or drugs.
- Carefully follow all applicable local, state and federal codes.
- Never step on equipment (as when entering or leaving the engine compartment). It can stress and break unit components, possibly resulting in dangerous operating conditions from leaking fuel, leaking exhaust fumes, etc.
- Keep equipment and area clean. Oil, grease, dirt, or stowed gear can cause fire or damage equipment by restricting airflow.
- Equipment owners and operators are solely responsible for operating equipment safely. Contact your authorized Onan/Cummins dealer or distributor for more information.

**KEEP THIS DOCUMENT NEAR EQUIPMENT FOR EASY REFERENCE.**

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## Introduction

This Parts Catalog applies to the Generator Sets Listed below. The illustrations are arranged in groups of related items, and each part or assembly is identified by a Reference Number. All parts illustrated are typical, and unless otherwise mentioned in the description column the parts are interchangeable between models. Dual Part No. may be applicable; CPS are Cummins Power Systems assigned Part Numbers and CEC are the Cummins Engine Company assigned Part Numbers.

These typical illustrations are subject to change and reflect only the latest replacement parts arrangement. The Right and Left sides of the Generator Set are determined by FACING the FRONT of the Set (Engine Radiator End)

### Set Data Table

ENGINE ID. No.	GEN SET ID No.	RPM RATING	BATTERY VOLTAGE
Note 1. VT28-G*#	Note 2. xxxVT@ - §	1800 RPM/ 1500 RPM	24 VDC
VTA28-G*#	xxxVTA@ - §	1800 RPM/ 1500 RPM	24 VDC

Note:1 \* - Letter S for Standby, Letter C for Continious Duty applications

Note:1 # - Number 1 thru 9 used to denote size variations.

Note:2 x - Numbers used to denote kW ratings: eg: 230 means 230,000 watt set.

Note:2 @ - Number used to denote size variations.

NOTE:2 § - Numbers and a letter used to provide configuration identification.

### Electrical Data Table

VOLTAGE		HERTZ	WIRE	PHASE	NOTES
LOW Y	HIGH Y				
190/110	380/219	60	12	3	
208/120	416/220	60	12	3	
220/127	440/254	60	12	3	
230/133	460/266	60	12	3	
240/139	480/277	60	12	3	
190/110	380/219	50	12	3	
200/115	400/231	50	12	3	
208/120	416/240	50	12	3	

### Engine Replacement Parts

The External Engine Components added or modified during the Generator Set Assembly and most General Maintance Items are identified in this Parts Catalog. For Internal Engine Parts and Components not covered herein; refer to the applicable Cummins Engine G Drive Parts Catalog.

## General Information

For parts or service, contact the distributor from whom you purchased this equipment or refer to the nearest Authorized Cummins Distributor.

To avoid errors or delays in filling your parts order, always give the full MODEL, SERIAL and ID No. from the nameplate.

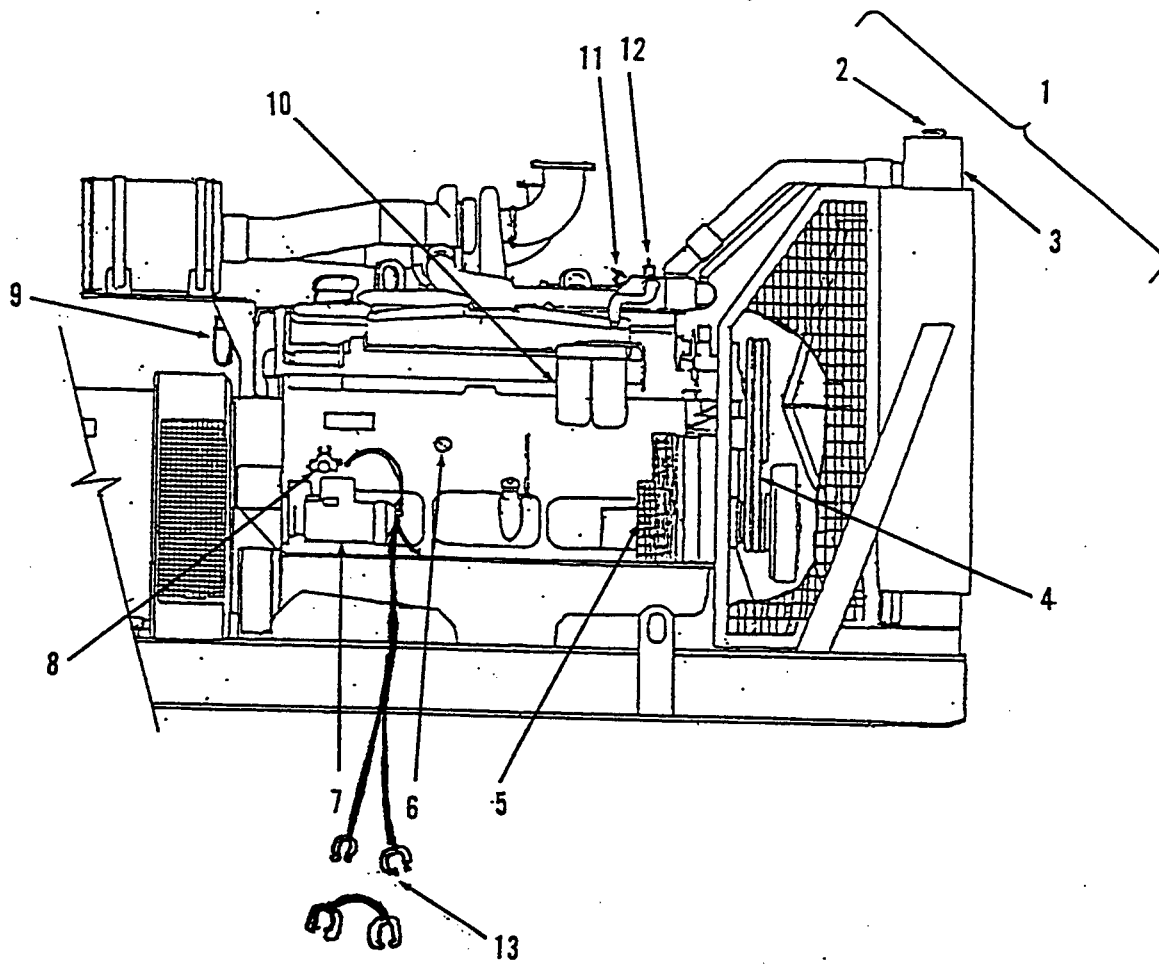
For handy reference, insert "YOUR" nameplate information in the spaces below.



AC Generator Set  
Model \_\_\_\_\_

kw	kva	pf	phase
voltage		amps	
duty		overload	
rpm		hz	
class of insulation		pmg voltage	
field amp max		field voltage max	
generator model no.			
voltage regulator model no.			
ID no.			
generator set serial no.			
BS5000		NEMA	

External Engine Components  
Left Side





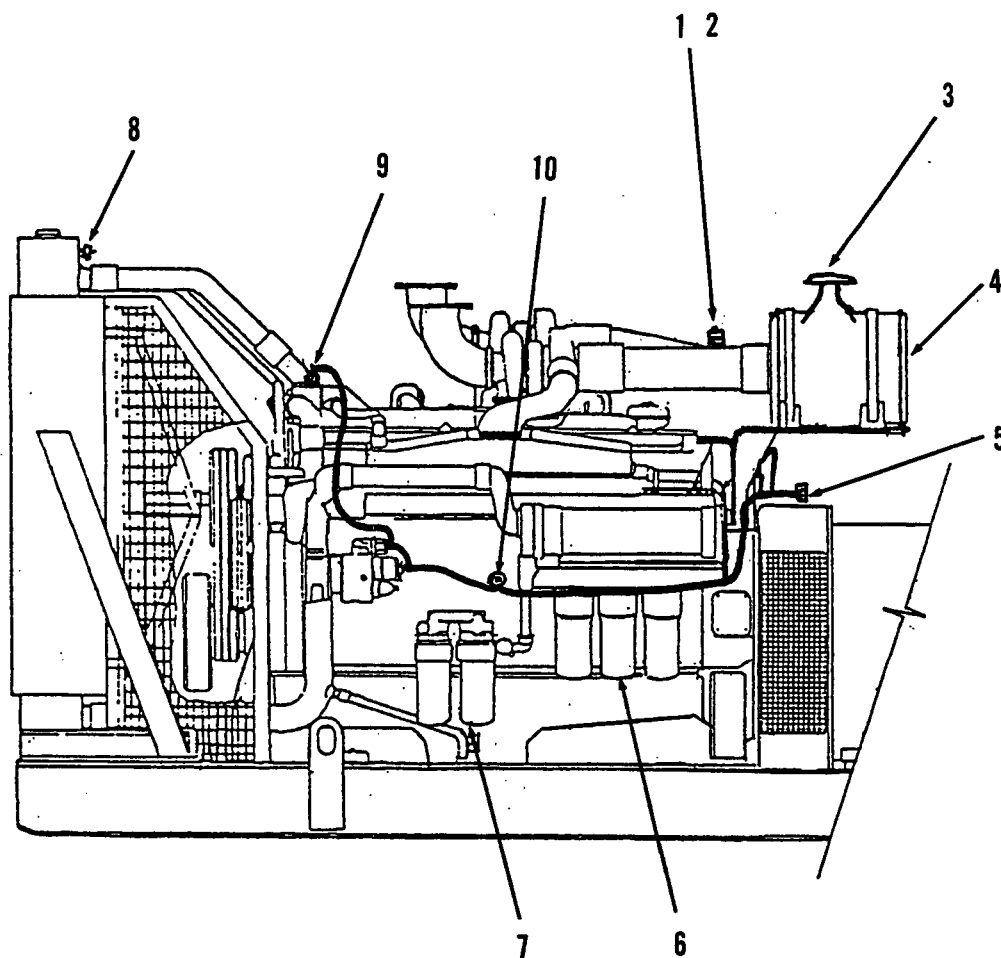
# External Engine Components Left Side

REF NO.	CPS PART NO.	CEC PART NO.	QTY USED	PART DESCRIPTION
1			Ref	Cooling System - Radiator (Select components as required)
2				Cap. Radiator (Select as applicable)
	130-0523		1	7 PSI (For 2" Fill Tube)
	130-2981		1	7 PSI (For 3" Fill Tube)
	130-3395		1	10 PSI (For 2" Fill Tube)
3				Radiator (Includes Front Guards, Excludes Cap)
				Standard Cooling 40°C/100°F
	130-3320-03	3050215	1	VT28 with Dry or Wet Manifold
	130-3320-04	3050216	1	VTA28-1 with Dry or Wet Manifold
	130-3320-04	3050216	1	VTA28-2 with Dry Manifold
	130-3320-05	3050330	1	VTA28-2 with Wet Manifold
	130-3320-04	3050216	1	VTA28-3 with Dry Manifold
	130-3320-05	3050330	1	VTA28-3 with Wet Manifold
				Hi Ambient Cooling 50°C/125°F
	130-3320-04	3050216	1	VT28 with Dry and Wet Manifold
	130-3320-04	3050216	1	VTA28-1 with Dry Manifold
	130-3320-05	3050330	1	VTA28-1 with Wet Manifold
	130-3320-05	3050330	1	VTA28-2 with Dry or Wet manifold
	130-3320-05	2050330	1	VTA28-3 with Dry Manifold
4	511-0165	3001600	3	Belt, Drive (Fan)
5				Alternator Charging Components
	191-1846-01	3016627	1	Alternator (35 Amp, 24 VDC)
	130-3317-01	201986	1	Pulley, Drive
	511-0163	3040283	2	Belt, Drive
6	302-1853	3015237	1	Transducer (Sender), Pressure - Oil
7				Starter, 24 VDC
		3021038	1	Standard
	191-1588		1	Heavy Duty
8	307-2621-02	3050692	1	Switch, Magnetic
9	122-0526	3313283	2	Filter, Oil - Bypass [LF777]
10				*Filter, Water - W/Corrosion Inhibiting Chemical DCA4
		3318201	2	Service for 60-90 Gal Cooling Systems [WF2072]
		3318319	2	Pre-Charging for 60-90 Gal Cooling Systems [WF2076]
11	302-1854	3015238	1	Transducer (Sender), Temperature - Engine Coolant
12	309-0570	3034866	1	Switch, Temperature - Engine Coolant
13				Cables & Leads
	416-0636		2	Cable, Battery (55" Lg)
	416-0473		2	Cable, Battery - Jumper
	416-0639		2	Cable, Battery (60" Lg)
	337-2401-06	3058410	2	Lead, Electrical

\* NOTE: Replacement cartridges recommend and should be used in lieu of the Original Engine Factory Installed Item which contains a Pre-Charge amount of DCA or DCA4 Chemical. Replacement with Pre-charge Cartridge may overload the Cooling System and cause problems or failure of the Set.

[ ] Numbers in Brackets are Fleetwood Inc. Identification.

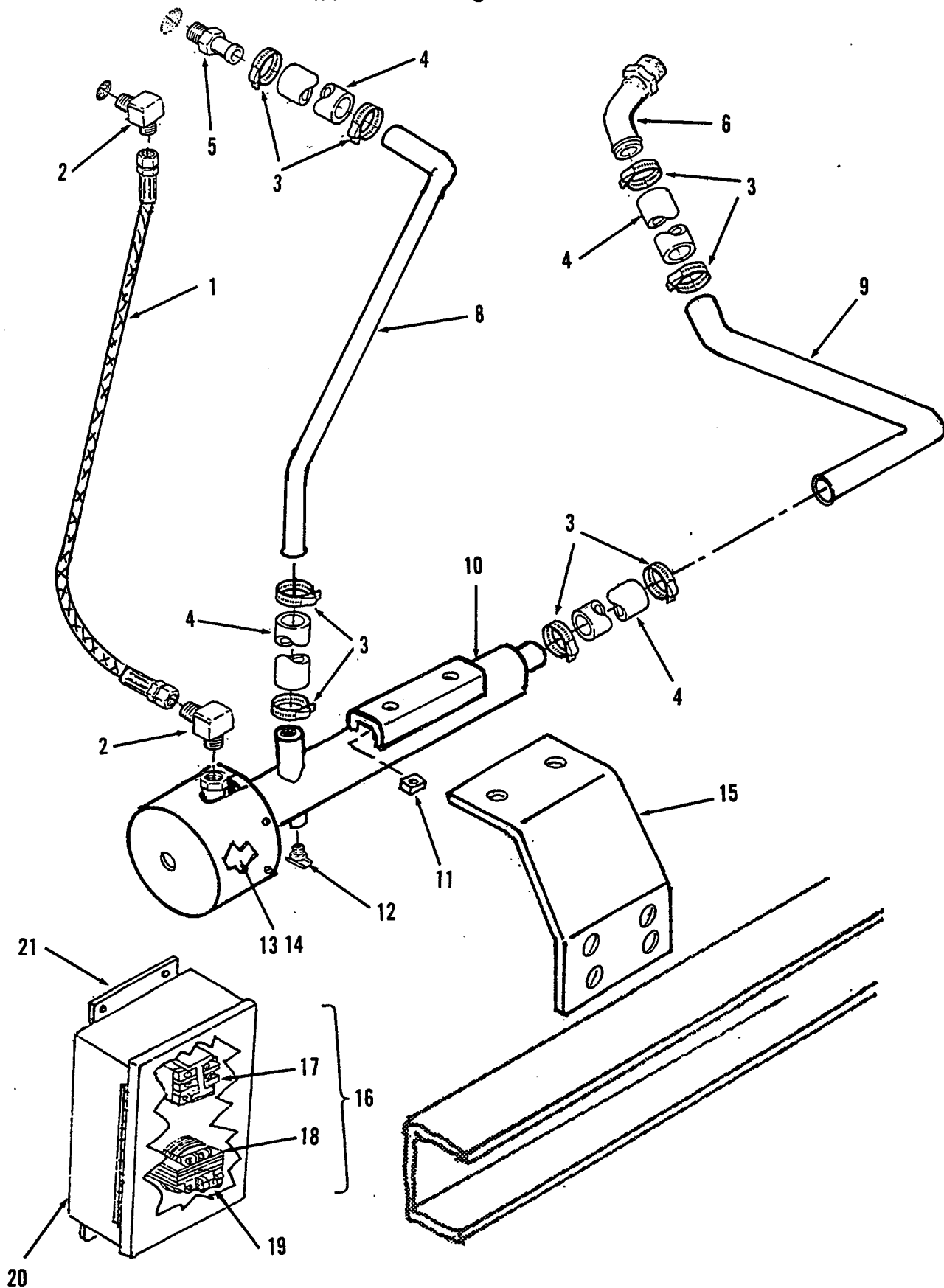
External Engine Components  
Right Side



# External Engine Components Right Side

REF NO.	CPS PART NO.	CEC PART NO.	QTY USED	PART DESCRIPTION
1	140-2226	178957	2	Indicator, Air Restriction (Includes Fitting)
2	140-1260		2	Fitting, Male - Hex
3	140-1545	152007	2	Cap, Air Cleaner
4				Air Cleaner (Select components as required)
				Indoor Application
	140-2225	3021644	2	Includes Element
		3022209	2	Element [AF928M]
				Outdoor Application
		3021645	2	Includes Element
		3022209	2	Element [AF928M]
				Heavy Duty Application
	140-1647	3000958	2	Includes Elements
	140-1649	3013210	2	Element, Primary [AF891M]
	140-1650	3013211	2	Element, Secondary [AF890]
5	338-2334	3053029	1	Harness, Wiring - Engine
6		3313279	3	Filter, Oil [LF670]
7		299202	2	Filter, Fuel [FF202]
8	309-0579-03	3046031	1	Switch, Low Coolant Level
9	309-0570	3034866	1	Switch, Temperature - Engine Coolant
10				Switch, Pressure - Oil
	309-0565-01	3034864	1	Standard, 3 Wire Harness
	309-0566	3034863	1	Pre-Alarm System, 4 Wire Harness

# Heater - Engine Coolant



# Heater - Engine Coolant

REF NO.	CPS PART NO.	CEC PART NO.	QTY USED	PART DESCRIPTION
1	501-0537-03	AS4032SS	1	Hose Assembly - Oil Pressure
2	502-1043-01	68139	2	Elbow, Pipe - Male, 90 DEG
3	503-1603	43828A	8	Clamp, Hose
4	503-1602	3027706	4	Hose, Rubber
5	502-1046	S9328	1	Coupling, Hose
6		3002718	1	Coupling, Hose - Elbow
8	130-3339	3056677	1	Tube, Water
9	130-3340	3056679	1	Tube, Water
10				Heater, Electrical - Engine Coolant (Includes Thermostat, Oil Pressure Switch, Drain Cock and Mounting Nuts)
	333-0413-08	3063473	1	4000 Watt, 208 VAC
	333-0389-02	3056182	1	4000 Watt, 240 VAC
	333-0389-04	3056184	1	4000 Watt, 480 VAC (Includes Heater Control Switch Unit)
	333-0389-06	3053979	1	4000 Watt, 120 VAC (Includes Heater Control Switch Unit)
				Attaching Parts for Heater
	800-0222	S114	2	Screw, Cap - Hex Head (1/4-20 x 3/4")
	850-0101	S600	2	Washer, lock - Spring (1/4")
	402-0608	3035083	2	Isolator, Vibration
	402-0609	3035084	2	Isolator, Vibration
11			2	Nut, Special (Supplied with Heater)
12	504-0003		1	Cock, Drain (1/4 NPT)
13		3059903	1	Thermostat
14		3059904	1	Switch, Pressure - Oil
15	130-3189	3056255	1	Bracket, Mounting - Heater
				Attaching Parts for Bracket
	800-0210	S103D	4	Screw, Cap - Hex Head (3/8-16 x 1-1/4")
	850-0103	S604	4	Washer, lock - Spring (3/8")
	871-0028	S254	4	Nut, Hex - Brass (3/8-16)
16				Switch, Control - Heater (Includes Contactor, Step-down Transformer with Fuse [480V Unit Only], Ground Lug and Box)
	309-0567-01	3056188	1	120 VAC
	309-0567-02	3056189	1	480 VAC
17			1	Contactor (37.5 AMP, 3 Pole, SPST, 120 VAC Coil)
18			1	Fuse (1 AMP)
19			1	Transformer, Step-down (240/480VAC Primary, 120 VAC Secondary, with Fuse Clips on output Terminals)
20			1	Box, Electrical
21	333-0390		1	Bracket, Mounting - Switch (Not Illustrated)

## GENERATOR SECTION

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# GENERATOR TABLE

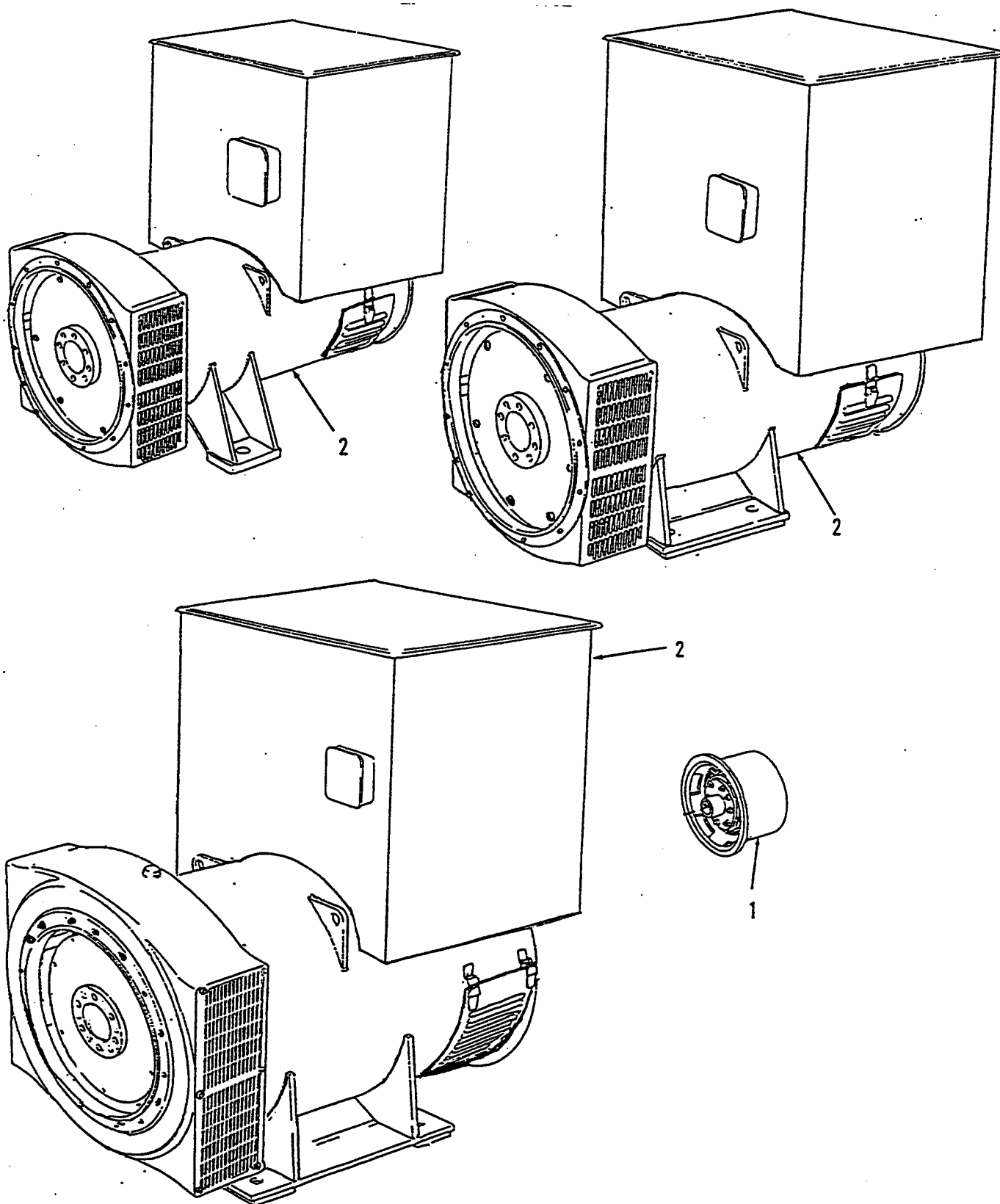
## Low Range Generators

OPTION CODE	FRAME SIZE	ADPTR SAE	DISK SAE	LEAD	KW RATING	VOLTAGE AT 60 HERTZ					AT 50 HERTZ		
						380 190	416 208	440 220	460 230	480 240	380 190	400 200	416 208
MG8316	5 C	0	18	12	Standby Prime Pwr	400 370	420 385	440 400	465 425	475 430	355 325	365 330	375 335
MG8317	5 D	0	18	12	Standby Prime	425 390	450 410	475 430	500 450	515 470	400 360	410 375	425 385
MG8318	5 E	0	18	12	Standby Prime Pwr	515 480	545 500	570 520	585 530	600 540	460 420	475 435	490 450
MG8319	5 F	0	18	12	Standby Prime Pwr	570 525	590 550	620 570	635 580	650 590	500 450	515 465	530 480
MG8320	6 AS	0	18	6	Standby Prime Pwr	610 575	640 600	660 625	680 640	700 650	540 500	550 515	570 525
MG8321	6 A	0	18	6	Standby Prime	670 625	700 650	740 675	770 710	800 730	610 555	630 580	650 600
MG8322	6 B	0	18	6	Standby Prime Pwr	750 680	800 730	830 770	860 800	900 820	680 620	700 640	720 660
MG8323	6 C	0	18	6	Standby Prime Pwr	880 820	920 850	960 880	1000 920	1050 950	800 730	825 750	840 765
MG8324	6 D	0	18	6	Standby Prime Pwr	950 880	1000 950	1050 990	1100 1020	1150 1050	875 800	900 825	920 850
MG8326	6 A	0	18	12	Standby Prime Pwr	670 625	700 650	740 675	770 710	800 730	610 555	630 580	650 600
MG8327	6 B	0	18	12	Standby Prime Pwr	750 680	800 730	830 770	860 800	900 820	680 620	700 640	720 660
MG8328	6 C	0	18	12	Standby Prime Pwr	880 820	920 850	960 880	1000 920	1050 950	800 730	825 750	840 765
MG8329	6 D	0	18	12	Standby Prime	950 880	1000 950	1050 990	1100 1020	1150 1050	875 800	900 825	920 850

## Medium Range Generators

OPTION CODE	FRAME SIZE	ADPTR SAE	DISK SAE	LEAD	KW RATING	VOLTAGE AT 60 HERTZ	AT 50 HERTZ
						4160/2400	3300/1905
MG8333	7 A	0	18	6	Standby Prime Pwr	540 500	430 400
MG8334	7 B	0	18	6	Standby Prime Pwr	810 750	650 600
MG8335	7 C	0	18	6	Standby Prime	1080 1000	860 800
MG8336	7 D	0	18	12	Standby Prime Pwr	1620 1500	1300 1200

Generators  
Frames 5 & 6 & 7  
SAE 0 / SAE 18



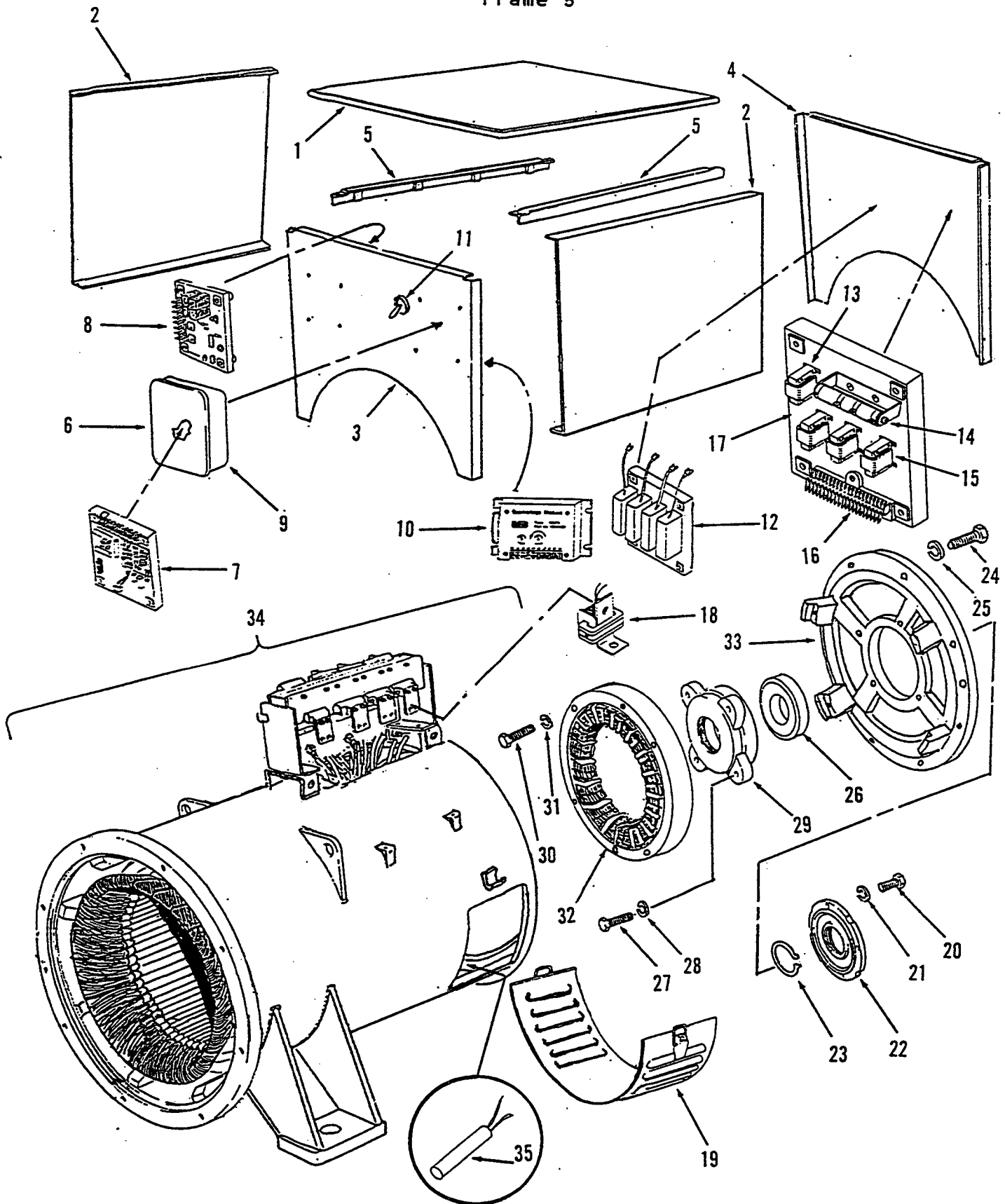


**Generators**  
**Frames 5 & 6 & 7**  
**SAE 0 / SAE 18**

REF NO.	CPS PART NO.	CEC PART NO.	QTY USED	PART DESCRIPTION
1			1	Module, Permanent Magnet Exciter (See Separate Page for Components)
	249-0298		4	Attaching Parts For Module Screw, Cap - Hex Head (M8 x 16mm)
	249-0218		4	Washer, Lock (M8)
	249-0315		4	Clamp, Retaining
2	Note 1			Generator [Includes PMG Exciter] (See Separate Pages for Stator and Rotor Components)
				Attaching Parts Generator To Skid
				Frames 5
	800-0221	S138	2	Screw, Cap - Hex Head (7/8-9 x 3")
	850-0108	S612	2	Washer, Lock - Spring (7/8")
	526-0348	S640	4	Washer, Flat (3/4")
	370-4046-01	125356	2	Shim
	370-4046-02	125357	2	Shim
	370-4046-03	125358	2	Shim
	862-0036	S203	2	Nut, Hex (7/8-9)
				Frame 6 and 7
	800-0242	S161	4	Screw, Cap - Hex Head (1-8 x 3-1/2")
	850-0109	S613	4	Washer, Lock - Spring (1")
	526-0360	146180	8	Washer, Flat (1")
	370-4045	3025064	4	Spacer (frame 6 only)
	370-4046-01	125356	4	Shim
	370-4046-02	125357	4	Shim
	370-4046-03	125358	4	Shim
	862-0037	S222	4	Nut, Hex (1-8)
				Attaching Parts Adapter to Flywheel Housing
				Frame 5
	800-0215	S113	8	Screw, Cap - Hex Head (1/2-13 x 1-1/2")
	800-0216	S125	4	Screw, Cap - Hex Head (1/2-13 x 2")
	850-0105	S608	12	Washer, Lock - Spring (1/2")
				Frame 6 and 7
	800-0238	S145	2	Screw, Cap - Hex Head (1/2-13 x 1-1/4")
	800-0236	S106	14	Screw, Cap - Hex Head (1/2-13 x 1-3/4")
	850-0105	S608	16	Washer, Lock - Spring (1/2")
				Attaching Parts Drive Disc to Flywheel
				Frame 5 and 6
	815-0719	206332	6	Screw, Cap - 12 Point Drive (5/8-11 x 1-1/4")
	526-0362	200861	6	Washer, Flat (5/8")
				Frame 7
	815-0725	206391	6	Screw, Cap - 12 Point Drive (5/8-11 x 1-1/2")
	526-0362	200861	6	Washer, Flat (5/8")

Note 1: For replacement Generator please supply the complete Gen Set nameplate and Generator nameplate data.

# Generator Stator Section Frame 5

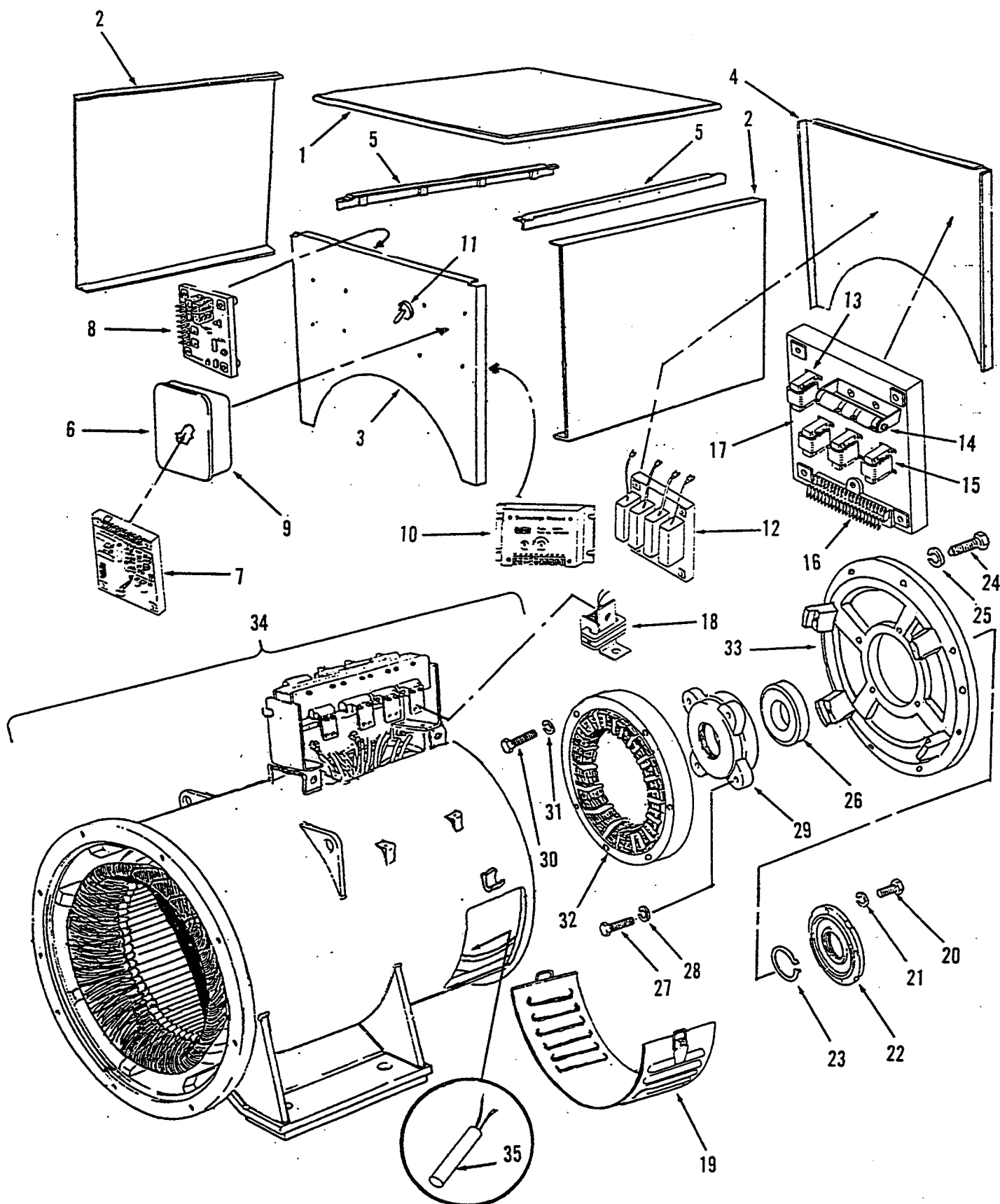


Generator  
Stator Section  
Frame 5

REF NO.	CPS PART NO.	CEC PART NO.	QTY USED	PART DESCRIPTION
1	NFS		1	Lid
2	NFS		2	Panel, Side
3	NFS		1	Panel, Front
4	NFS		1	Panel, Rear
5	NFS		2	Bracket, Angle
6	249-0631		2	Lid, Electrical Box - Plain
				Attaching Parts
	249-0304		8	Screw, Captive
7				Regulator, Voltage
	305-0770		1	Standard 1 Phase
	305-0778		1	3 Phase (Used with 3 Phase Sensing Module)
	305-0803		1	Manual
				Attaching Parts
	249-0398		4	Pillar, Threaded
8	300-3278		1	Module, 3 Phase Sensing
				Attaching Parts
	249-0398		4	Pillar, Threaded
9	249-0395		2	Box, Electrical
10	249-0486		1	Module, Overvoltage
				Attaching Parts
	249-0295		4	Screw, Cap - Hex Head (M5 x 35mm)
	249-0288		4	Washer, Plastic (M5)
	249-0287		4	Nut, Hex - Nylon (M5)
11	249-0449		1	Switch
12	249-0569		1	RFI Suppressor Assy
13	302-1851		1	Choke
14	354-0031		1	Resistor, Adjustable
15	249-0504		3	Transformer, Voltage Sensing
16	249-0289		3	Block, Terminal
17	249-0424		1	Panel, Terminal Block Mounting
18	302-1852-02		3	Transformer, Current
19	249-0408		2	Grille, Inlet - Air
20	249-0243		4	Screw, Cap - Hex Head (M10 x 30mm)
21	249-0202		4	Washer, Lock - Spring (M10)
22	249-0242		1	Cap, Bearing - Outer
23	249-0232		1	Circlip
24	249-0201		8	Screw, Cap - Hex Head (M10 x 35mm)
25	249-0202		8	Washer, Lock - Spring (M10)
26	249-0241		1	Bearing, Ball
27	249-0245		4	Screw, Cap - Hex Head (M10 x 50mm)
28	249-0202		4	Washer, Lock - Spring (M10)
29	249-0244		1	Cap, Bearing - Inner
30	249-0256		6	Screw, Cap - Hex Head (M6 x 65mm)
31	249-0212		6	Washer, Lock - Spring (M6)
32	249-0255		1	Stator, Exciter
33	249-0272		1	Bracket, End
34	NFS		1	Stator, Generator (Includes Terminal Studs and Links)
				Attaching Parts Stator to Adapter
	249-0204		8	Screw, Cap - Hex Head (M12 x 40mm)
	249-0205		8	Washer, Lock - Spring (M12)
35				Heater, Electrical - Replacement
	249-0621		1	70 Watt, 120 VAC
	249-0622		1	70 Watt, 240 VAC

NFS - Not For Sale

# Generator Stator Section Frame 6

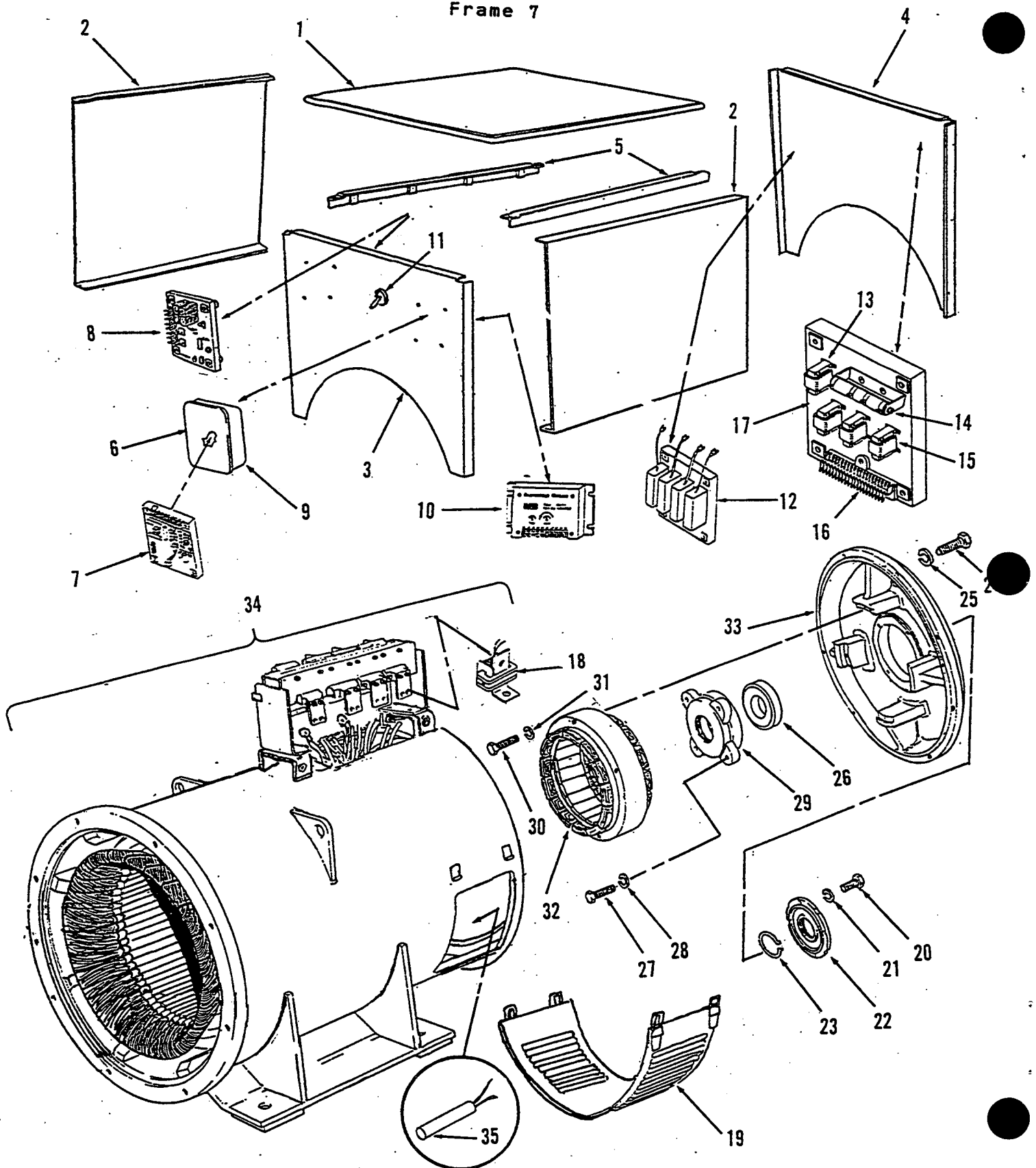


**Generator  
Stator Section  
Frame 6**

REF NO.	CPS PART NO.	CEC PART NO.	QTY USED	PART DESCRIPTION
1	NFS		1	Lid
2	NFS		2	Panel, Side
3	NFS		1	Panel, Front
4	NFS		1	Panel, Rear
5	NFS		2	Bracket, Angle
6	249-0425		2	Lid
	249-0304		8	Attaching Parts Screw, Captive
7	305-0770		1	Regulator, Voltage Standard
	305-0778		1	3 Phase (Used with 3 Phase Sensing Module)
	305-0803		1	Manual
	249-0398		4	Attaching Parts Pillar, Threaded
8	302-3278		1	Module, 3 Phase Sensing
	249-0398		4	Attaching Parts Pillar, Threaded
9	249-0395		2	Box
10	249-0486		1	Module, Overvoltage
	249-0295		4	Attaching Parts Screw, Cap - Hex Head (M5 x 35mm)
	249-0288		4	Washer, Plastic (M5)
	249-0287		4	Nut, Hex - Nylon (M5)
11	249-0449		1	Switch
12	249-0569		1	RFI Suppressor Assy
13	302-1851		1	Choke
14	354-0031		1	Resistor, Adjustable
15	249-0504		3	Transformer, Voltage Sensing
16	249-0289		3	Block, Terminal
17	249-0424		1	Panel, Terminal Block Mounting
18	302-1852-02		3	Transformer, Current
19	249-0513		2	Grille, Inlet - Air
20	249-0243		4	Screw, Cap - Hex Head (M10 x 30mm)
21	249-0202		4	Washer, Lock - Spring (M10)
22	249-0510		1	Cap, Bearing - Outer
23	249-0447		1	Circlip
24	249-0204		8	Screw, Cap - Hex Head (M12 x 40mm)
25	249-0205		8	Washer, Lock - Spring (M12)
26	249-0448		1	Bearing, Ball
27	249-0245		4	Screw, Cap - Hex Head (M10 x 50mm)
28	249-0202		4	Washer, Lock - Spring (M10)
29	249-0509		1	Cap, Bearing - Inner
30	249-0445		6	Screw, Cap - Hex Head (M6 x 85mm)
31	249-0212		6	Washer, Lock - Spring (M6)
32	249-0470		1	Stator, Exciter
33	249-0527		1	Bracket, End
34	NFS		1	Stator, Generator (Includes Terminal Studs and Links)
	249-0204		8	Attaching Parts Stator to Adapter Screw, Cap - Hex Head (M12 x 40mm)
	249-0205		8	Washer, Lock - Spring (M12)
35	249-0621		1	Heater, Electrical - Replacement 70 Watt, 120 VAC
	249-0622		1	70 Watt, 240 VAC

NFS - Not For Sale

# Generator Stator Section Frame 7

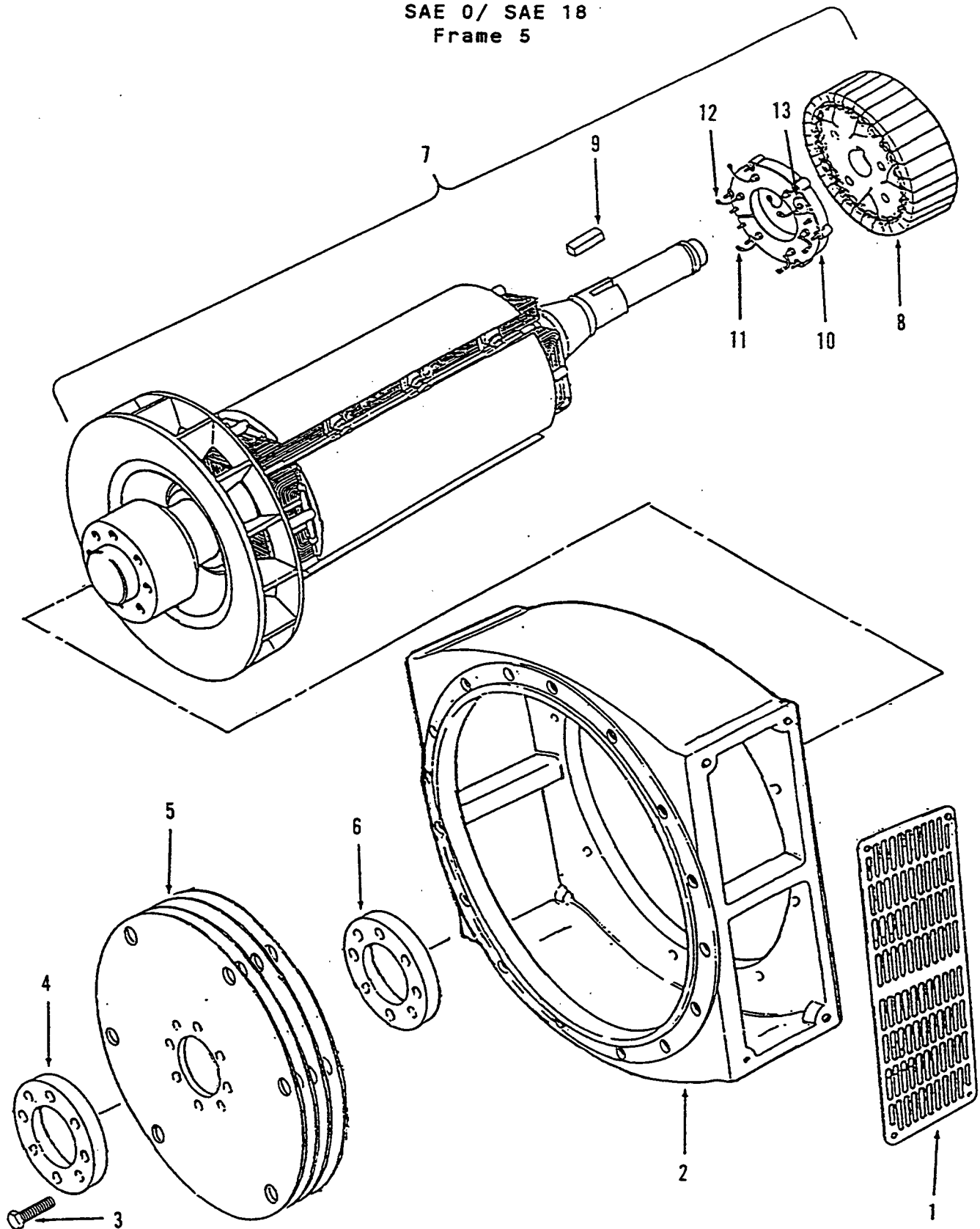


**Generator  
Stator Section  
Frame 7**

REF NO.	CPS PART NO.	CEC PART NO.	QTY USED	PART DESCRIPTION
1	NFS		1	Lid
2	NFS		2	Panel, Side
3	NFS		1	Panel, Front
4	NFS		1	Panel, Rear
5	NFS		2	Bracket, Angle
6	249-0425		2	Lid
				Attaching Parts
	249-0304		8	Screw, Captive
7				Regulator, Voltage
	305-0770		1	Standard
	305-0778		1	3 Phase (Used with 3 Phase Sensing Module)
	305-0803		1	Manual
				Attaching Parts
	249-0398		4	Pillar, Threaded
8	302-3278		1	Module, 3 Phase Sensing
				Attaching Parts
	249-0398		4	Pillar, Threaded
9	249-0395		2	Box
10	249-0486		1	Module, Overvoltage
				Attaching Parts
	249-0295		4	Screw, Cap - Hex Head (M5 x 35mm)
	249-0288		4	Washer, Plastic (M5)
	249-0287		4	Nut, Hex - Nylon (M5)
11	249-0449		1	Switch
12	249-0569		1	RFI Suppressor Assy
13	302-1851		1	Choke
14	354-0031		1	Resistor, Adjustable
15				Transformer
	249-0504		3	Voltage Sensing (Used on Standard Voltage Generators)
	302-1876		3	Isolation (Used on Medium Voltage Generators)
16	249-0289		3	Block, Terminal
17	249-0424		1	Panel, Terminal Block Mounting
18				Transformer, Current
	302-1852-01		3	Used on Standard Voltage Generators
	302-1852-03		3	Used on medium Voltage Generators
19	249-0583		2	Grille, Inlet - Air
20	249-0243		4	Screw, Cap - Hex Head (M10 x 30mm)
21	249-0202		4	Washer, Lock - Spring (M10)
22	249-0510		1	Cap, Bearing - Outer
23	249-0447		1	Circlip
24	249-0204		8	Screw, Cap - Hex Head (M12 x 40mm)
25	249-0205		8	Washer, Lock - Spring (M12)
26	249-0448		1	Bearing, Ball
27	249-0245		4	Screw, Cap - Hex Head (M10 x 50mm)
28	249-0202		4	Washer, Lock - Spring (M10)
29	249-0509		1	Cap, Bearing - Inner
30	249-0438		6	Screw, Cap - Hex Head (M6 x 85mm)
31	249-0218		6	Washer, Lock - Spring (M6)
32	249-0470		1	Stator, Exciter
33	249-0471		1	Bracket, End
34	NFS		1	Stator, Generator (Includes Terminal Studs and Links)
				Attaching Parts Stator to Adapter
	249-0204		8	Screw, Cap - Hex Head (M12 x 40mm)
	249-0205		8	Washer, Lock - Spring (M12)
35				Heater, Electrical - Replacement
	249-0621		1	70 Watt, 120 VAC
	249-0622		1	70 Watt, 240 VAC

NFS - Not For Sale

Generator  
Rotor Section  
SAE 0/ SAE 18  
Frame 5



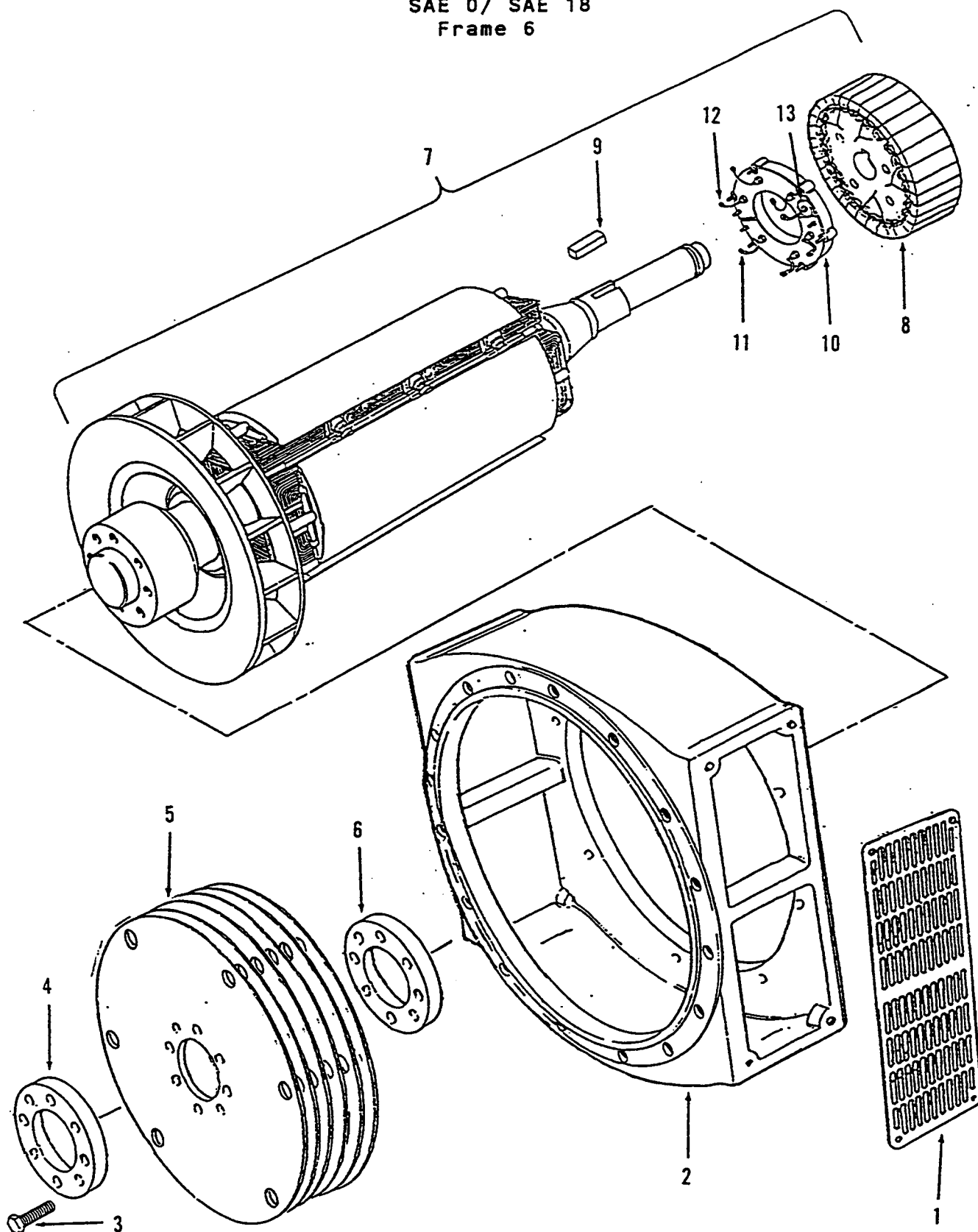


Generator  
Rotor Section  
SAE 0/ SAE 18  
Frame 5

REF NO.	CPS PART NO.	CEC PART NO.	QTY USED	PART DESCRIPTION
1	249-0408		2	Screen, Air - Adapter Attaching Parts
	249-0294		12	Screw, Cap - Hex Head (M5 x 12mm)
	249-0307		12	Washer, Lock - Spring (M5)
	249-0365		12	Washer, Flat (M5)
2	249-0322		1	Adapter, Generator SAE 0
3	249-0437		8	Screw, Cap - Hex Head (M20 x 75mm)
4	249-0230		1	Plate, Pressure
5	249-0276		4	Disc, Drive SAE 18
6	249-0277		1	Spacer
7	NFS		1	Rotor, Generator (Includes Exciter, Key, and Rectifier Assy)
8	249-0522		1	Rotor, Exciter (Does Not Include Rectifier Assy)
9	249-0271		1	Key
10	249-0237		1	Rectifier Assy (Includes Diodes)
11	249-0239		3	Diode, Forward Polarity
12	249-0238		3	Diode, Reverse Polarity
13	249-0240		1	Varister

NFS - Not For Sale

Generator  
Rotor Section  
SAE 0/ SAE 18  
Frame 6

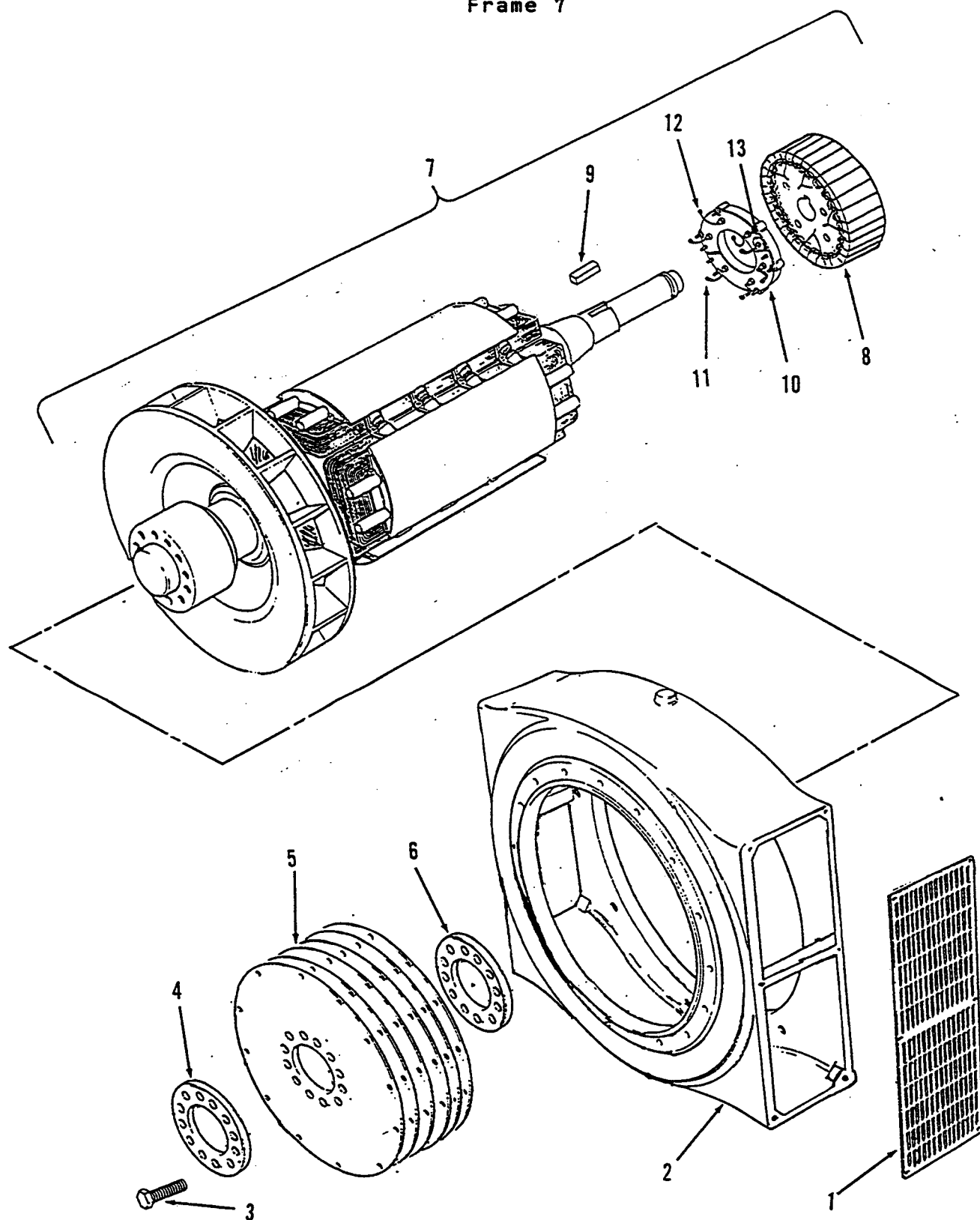


Generator  
Rotor Section  
SAE 0/ SAE 18  
Frame 6

REF NO.	CPS PART NO.	CEC PART NO.	QTY USED	PART DESCRIPTION
1	249-0534		2	Screen, Air - Adapter
				Attaching Parts
	249-0294		12	Screw, Cap - Hex Head (M5 x 12mm)
	249-0307		12	Washer, Lock - Spring (M5)
	249-0365		12	Washer, Flat (M5)
2	249-0533		1	Adapter, Generator SAE 0
3	249-0437		8	Screw, Cap - Hex Head (M20 x 75mm)
4	249-0230		1	Plate, Pressure
5	249-0276		6	Disc, Drive SAE 18
6	249-0277		1	Spacer
7	NFS		1	Rotor, Generator (Includes Exciter, Key, and Rectifier Assy)
8	249-0512		1	Rotor, Exciter (Does Not Include Rectifier Assy)
9			1	Key
10	249-0237		1	Rectifier Assy (Includes Diodes)
11	249-0239		3	Diode, Forward Polarity
12	249-0238		3	Diode, Reverse Polarity
13	249-0240		1	Varister

NFS - Not For Sale

Generator  
Rotor Section  
SAE 0/ SAE 18  
Frame 7

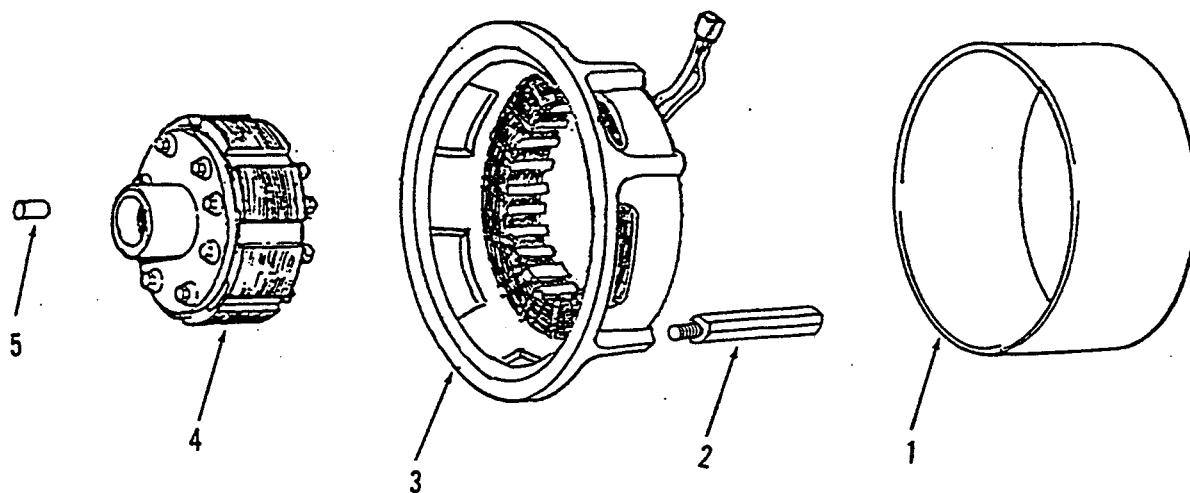


Generator  
Rotor Section  
SAE 0/ SAE 18  
Frame 7

REF NO.	CPS PART NO.	CEC PART NO.	QTY USED	PART DESCRIPTION
1	249-0482		2	Screen, Air - Adapter
				Attaching Parts
	249-0294		12	Screw, Cap - Hex Head (M5 x 12mm)
	249-0307		12	Washer, Lock - Spring (M5)
	249-0365		12	Washer, Flat (M5)
2	249-0481		1	Adapter, Generator SAE 0
3	249-0444		8	Screw, Cap - Hex Head (M24 x 75mm)
4	249-0467		1	Plate, Pressure
5	249-0469		6	Disc, Drive SAE 18
6	249-0468		1	Spacer
7	NFS		1	Rotor, Generator (Includes Exciter, Key, and Rectifier Assy)
8	249-0503		1	Rotor, Exciter (Does Not Include Rectifier Assy)
9	249-xxxx		1	Key
10	249-0237		1	Rectifier Assy (Includes Diodes)
11	249-0239		3	Diode, Forward Polarity
12	249-0238		3	Diode, Reverse Polarity
13	249-0566		1	Varister

NFS - Not For Sale

# Generator Permanent Magnet Exciter



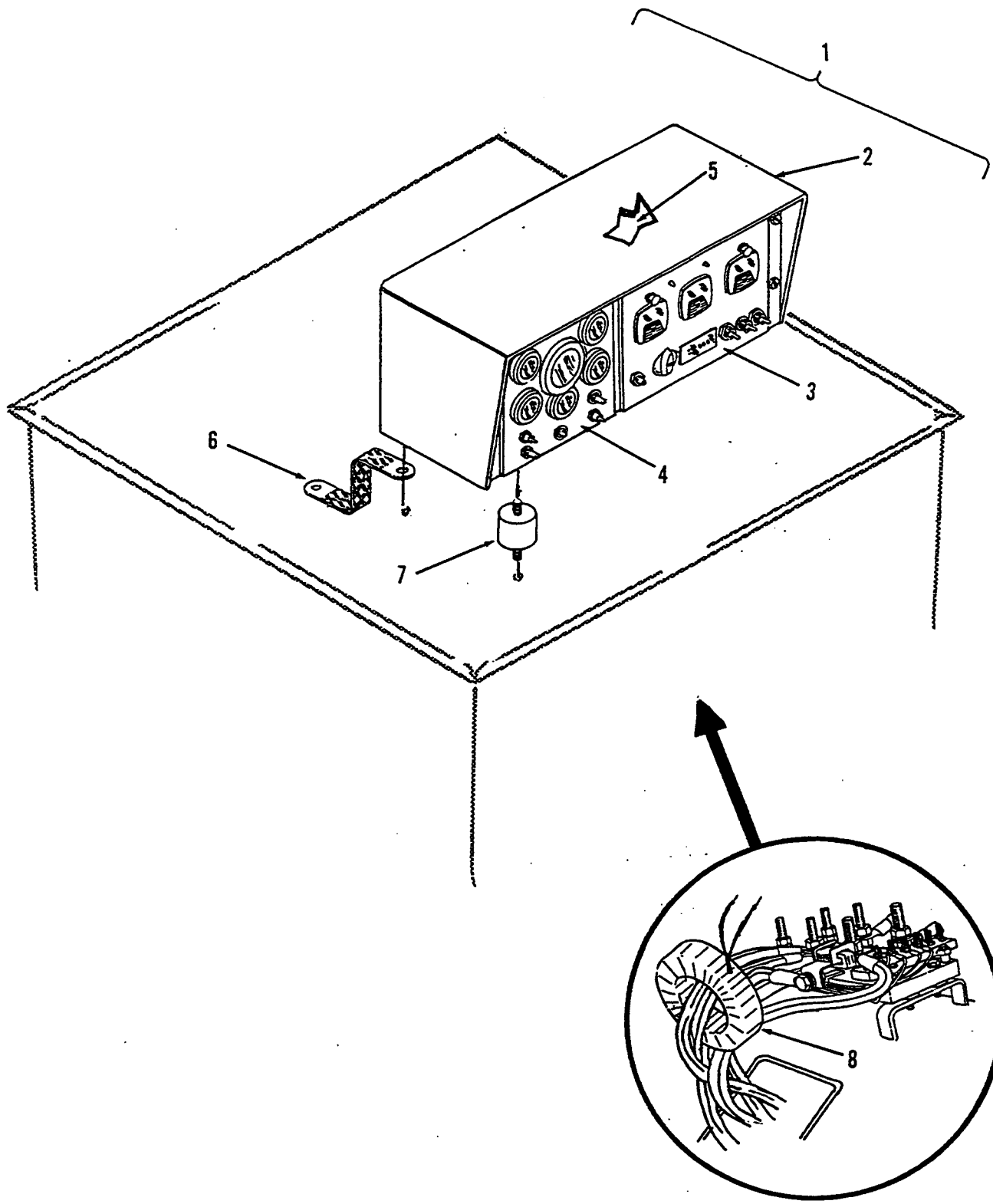
REF NO.	CPS PART NO.	CEC PART NO.	QTY USED	PART DESCRIPTION
1	249-0497		1	Cover, Permanent Magnet
	249-0294		3	Attaching Parts For Cover
	249-0307		3	Screw, Cap - Hex Head (M5 x 12mm)
2	249-0496		3	Washer, Lock (M5)
3	249-0426		1	Pillar, Threaded
4				Stator Assembly with Frame
				Rotor Assembly
	249-0427		1	Frame 2, 3, 4 Generators
	249-0644		1	Frame 5, 6, 7 Generators
				Attaching Parts For Rotor
	249-0399		1	Bolt
	249-0202		1	Washer, Lock (M10)
5	249-0313		1	Pin, Dowel

## CONTROL SECTION

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# Generator Set Control

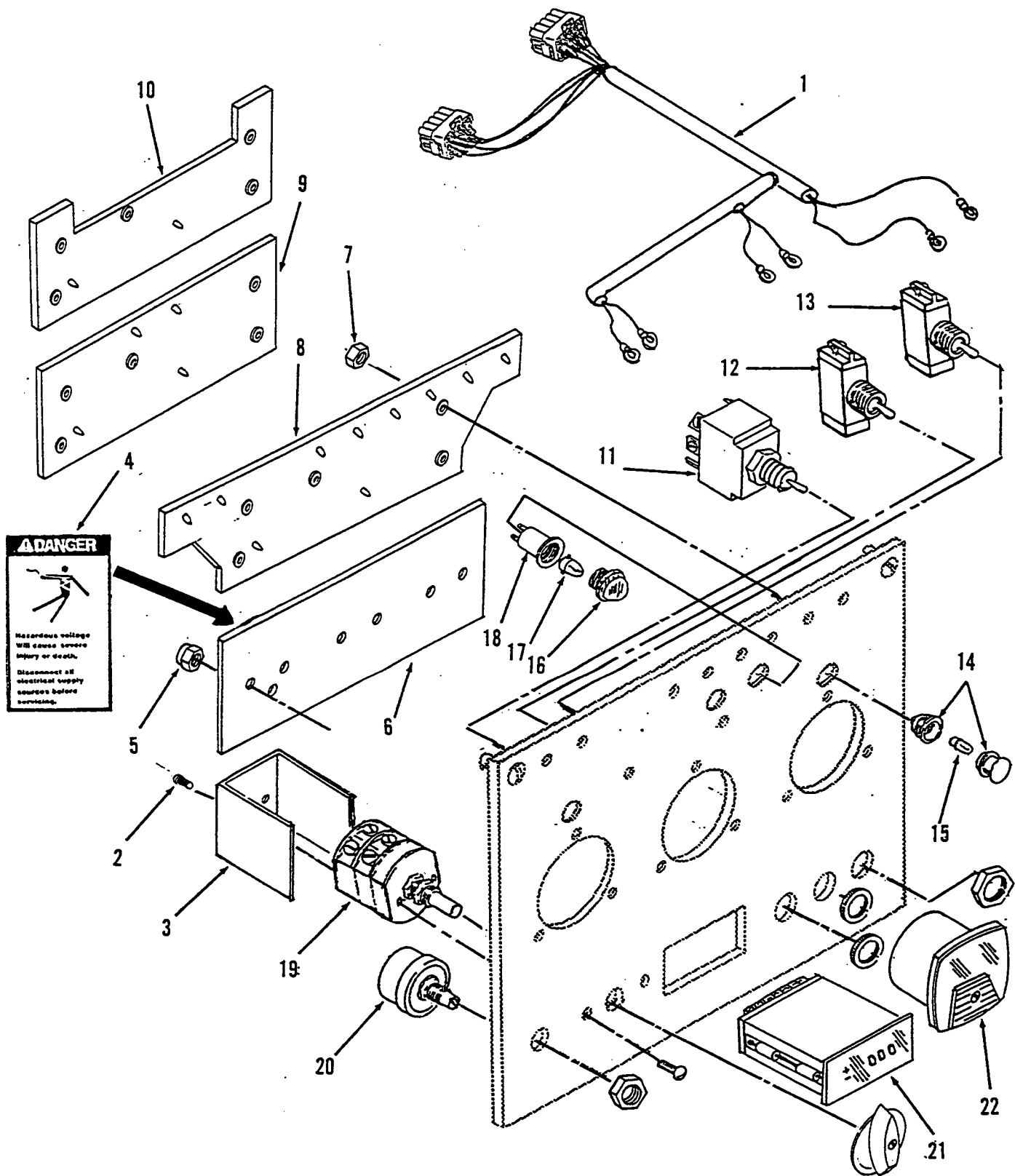




# Generator Set Control

REF NO.	CPS PART NO.	CEC PART NO.	QTY USED	PART DESCRIPTION
1	NFS	NFS	1	Control, Generator Set (See Items 3 Thru 5 for Components)
	862-1001	70299	8	Attaching Parts for Control
	850-1040	70189	8	Nut, Hex (1/4-20)
2	NFS	NFS	1	Washer, Lock - Spring (1/4")
				Cover, Control
	815-0701	3016086	6	Attaching Part for Cover
3	NFS	NFS	1	Screw, Machine - Round Head (1/4-20 x 1/2")
4	NFS	NFS	1	Control Panel, Generator (See Separate Pages for Components)
5	NFS	NFS	1	Control Panel, Engine (See Separate Pages for Components)
				Internal Components and Wiring Harnesses (See Separate Pages Selection)
6	337-2402	3016849	1	Lead, Electrical - Ground
7	402-0610	204493	4	Mount, Vibration
8				Transformer, Current (Select as Required)
	302-1866-05	3011674	3	400:5 Ratio (Used with 200/400 AMP Ammeter)
	302-1866-09	3011678	3	600:5 Ratio (Used with 300/600 AMP Ammeter)
	302-1866-13	3011682	3	800:5 Ratio (Used with 400/800 AMP Ammeter)
	302-1866-15	3011684	3	1000:5 Ratio (Used with 500/1000 AMP Ammeter)
	302-1866-17	3011686	3	1200:5 Ratio (Used with 600/1200 AMP Ammeter and 1200 AMP Single Scale Ammeter)
	302-1866-21	3011690	3	1600:5 Ratio (Used with 800/1600 AMP Ammeter)
	302-1866-24	3014135	3	2000:5 Ratio (Used with 1000/2000 AMP Ammeter)
	302-1866-27	3051479	3	2500:5 Ratio (Used with 2500 AMP Single Scale Ammeter)
	302-1866-28	3051480	3	3000:5 Ratio (Used with 1500/3000 AMP & 3000 AMP Single Scale Ammeters)

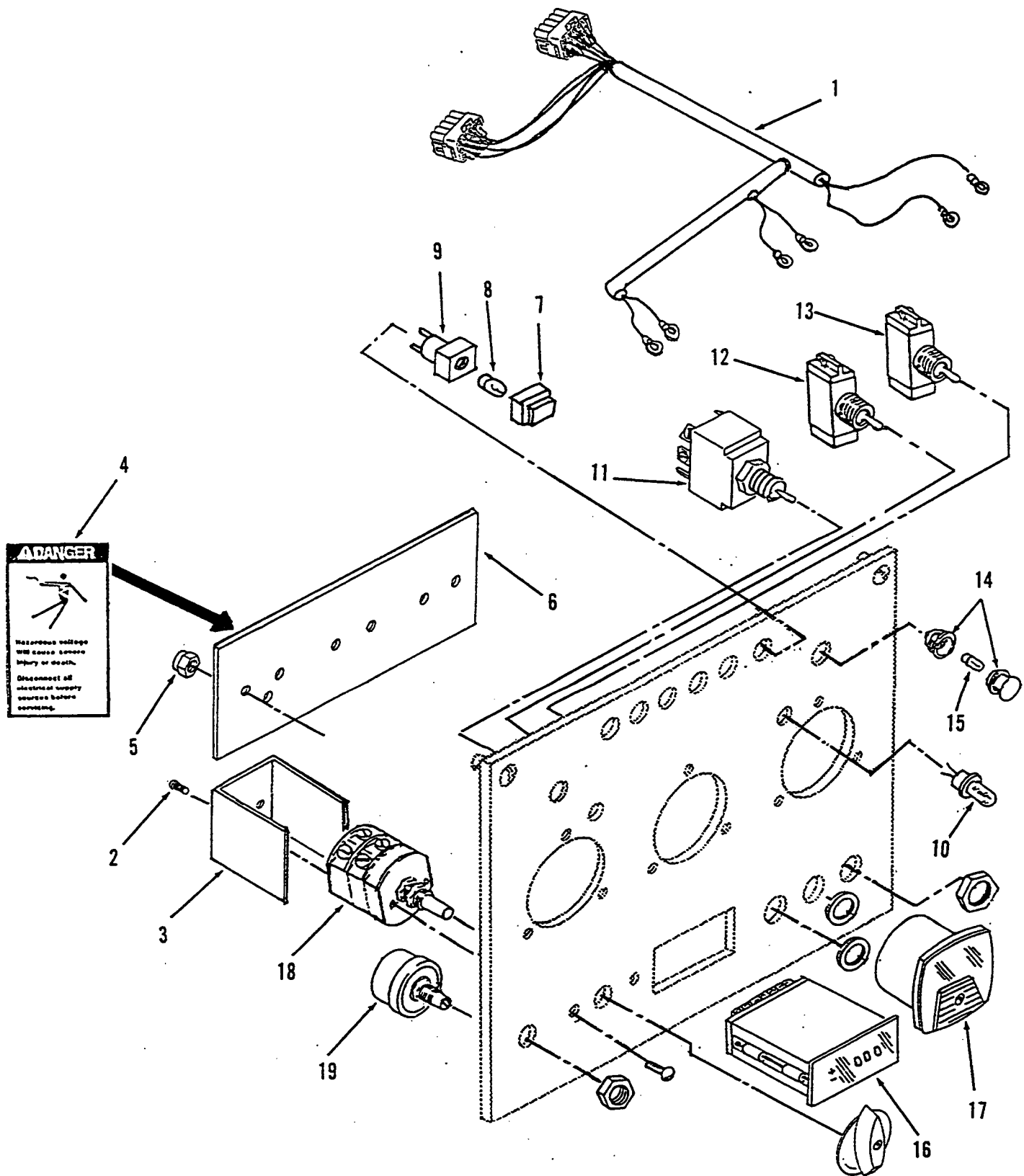
# Generator Control Panel With L E D Indicator Lights



# Generator Control Panel With L E D Indicator Lights

REF NO.	CPS PART NO.	CEC PART NO.	QTY USED	PART DESCRIPTION
1			REF	Harness, Wiring (See Separate Pages for Selection and Applications)
2	812-0075		2	Screw, Machine - Round Head (#8-32 x 1/4")
3	306-3523		1	Shield, Switch
4	98-5387		1	Decal (Warning)
5	870-0437		7	Nut, Acorn - Plastic
6	306-3522		1	Shield, Meters
7	870-0451	70646	4	Nut, Self-locking - Hex (#8-32 )
8	300-3283	3053064	1	Printed Circuit Board - 10 LED Lights
9	300-3282	3053063	1	Printed Circuit Board - 4 LED Lights
10	300-3281	3053062	1	Printed Circuit Board - 2 LED Lights
11				Switch, Toggle
	308-0885-05	3015057	1	(AUTOSTART ON/OFF/STANDBY)
	308-0885-06	3015058	1	(SYNCHRONIZING)
12	308-0885-11	3055738	1	Switch, Toggle (ALARM SILENCE)
13	308-0885-08	3035149	1	Switch, Toggle (PANEL LIGHTS)
14	322-0398	3035016	2	Light, Panel (Less Bulb)
15	322-0397-01	3035018	2	Bulb, Incandescent
16	322-0406	3056064	2	Lens, Clear (SYNCHRONIZING)
17	322-0404-01	3056065	2	Bulb, Incandescent
19	322-0405	3056063	2	Socket, Light
19	308-0884	3015860	1	Switch, Selector (Includes Knob)
20	303-0288	3058451	1	Rheostat
21	302-1860	3056071	1	Wattmeter
22				Meter (TYPICAL)
	302-1856	3015043	1	Voltmeter
	302-1858	3015044	1	Frequency/RPM
				Ammeter (Select as Required)
				DUAL SCALE
	302-1871-05	3039530	1	200/400 AMP
	302-1862	3015035	1	300/600 AMP
	302-1863	3015036	1	400/800 AMP
	302-1871-06	3051478	1	500/1000 AMP
	302-1864	3015037	1	600/1200 AMP
	302-1865	3015038	1	800/1600 AMP
	302-1871-01	3015039	1	1000/2000 AMP
	302-1871-09	3059965	1	1500/3000 AMP
	302-1871-10	3059966	1	2000/4000 AMP
				SINGLE SCALE
	302-1871-02	3015040	1	1200 AMP
	302-1871-03	3015041	1	1600 AMP
	302-1871-04	3015042	1	2000 AMP
	302-1871-07	3051479	1	2500 AMP
	302-1871-08	3051480	1	3000 AMP

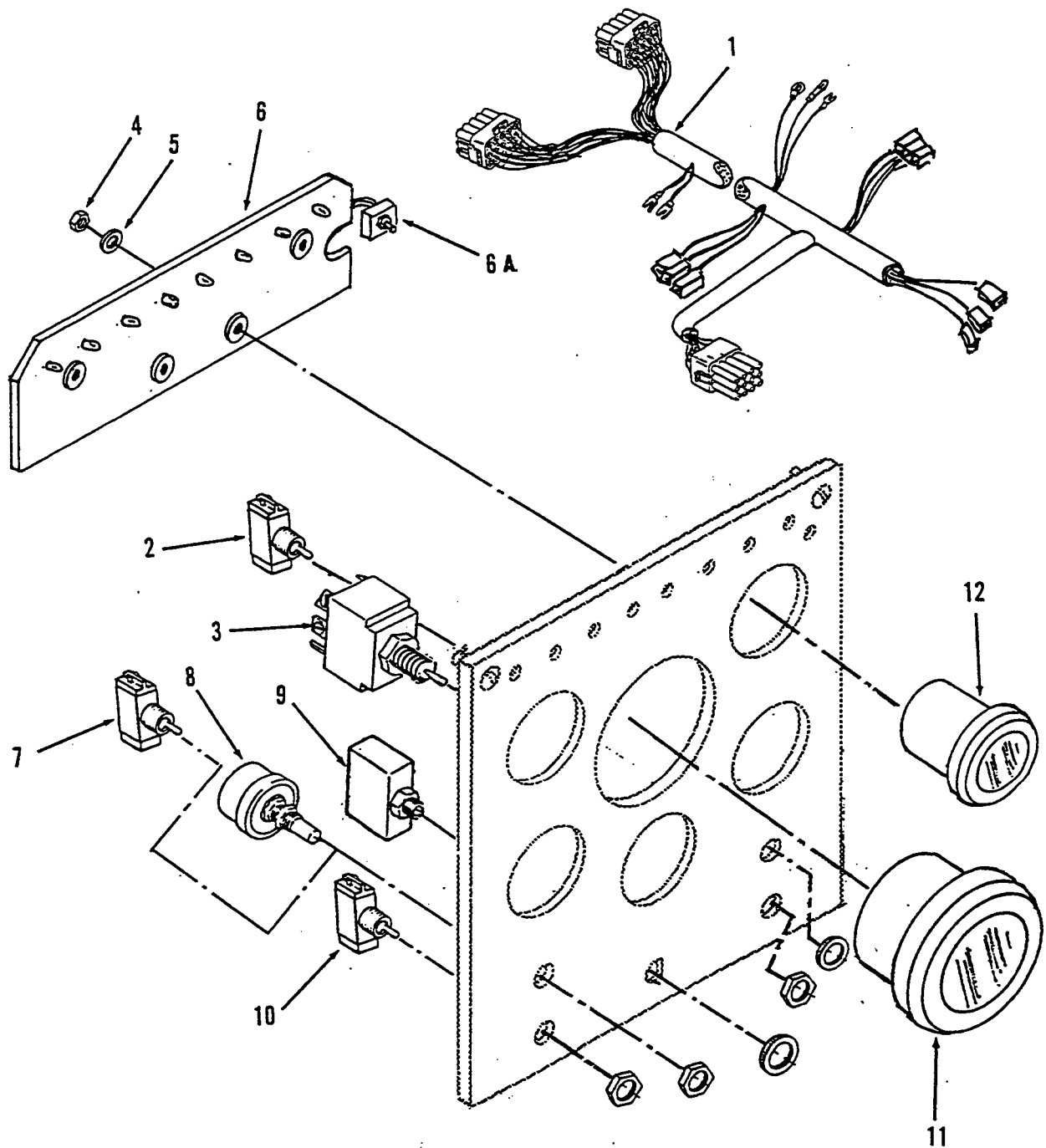
# Generator Control Panel With Bulb Indicator Lights



# Generator Control Panel With Bulb Indicator Lights

REF NO.	CPS PART NO.	CEC PART NO.	QTY USED	PART DESCRIPTION
1			REF	Harness, Wiring (See Separate Pages for Selection and Applications)
2	812-0075		2	Screw, Machine - Round Head (#8-32 x 1/4")
3	306-3523		1	Shield, Switch
4	98-5387		1	Decal (Warning)
5	870-0437		7	Nut, Acorn - Plastic
6	306-3522		1	Shield, Meters
7				Lens, Indicator Light
		3018795	4	Orange
		3018796	1	Red
		3018797	1	Green
		3018798	2	White (SYNCHRONIZING)
8		3018799	8	Bulb, Incandescent
9				Socket & Socket with Switch
		3018800	7	Socket, Light
		3014667	1	Socket, Light with Push Switch
10		3015133	2	Light, Indicator - Red Lens (UPPER/LOWER SCALE INDICATING)
11				Switch, Toggle
	308-0885-05	3015057	1	(AUTOSTART-ON/OFF/STANDBY)
	308-0885-06	3015058	1	(SYNCHRONIZING)
12	308-0885-11	3055738	1	Switch, Toggle (ALARM SILENCE)
13	308-0885-08	3035149	1	Switch, Toggle (PANEL LIGHTS)
14	322-0398	3035016	2	Light, Panel (Less Bulb)
15	322-0397-01	3035018	2	Bulb, Incandescent
16		3015018	1	Wattmeter
17				Meter
	302-1856	3015043	1	Voltmeter
	302-1858	3015044	1	Frequency/RPM
				Ammeter (Select as Required)
				DUAL SCALE
	302-1871-05	3039530	1	200/400 AMP
	302-1862	3015035	1	300/600 AMP
	302-1863	3015036	1	400/800 AMP
	302-1871-06	3051478	1	500/1000 AMP
	302-1864	3015037	1	600/1200 AMP
	302-1865	3015038	1	800/1600 AMP
	302-1871-01	3015039	1	1000/2000 AMP
	302-1871-09	3059965	1	1500/3000 AMP
	302-1871-10	3059966	1	2000/4000 AMP
				SINGLE SCALE
	302-1871-02	3015040	1	1200 AMP
	302-1871-03	3015041	1	1600 AMP
	302-1871-04	3015042	1	2000 AMP
	302-1871-07	3051479	1	2500 AMP
	302-1871-08	3051480	1	3000 AMP
18	308-0884	3015860	1	Switch, Selector (Includes Knob)
19	303-0288	3058451	1	Rheostat

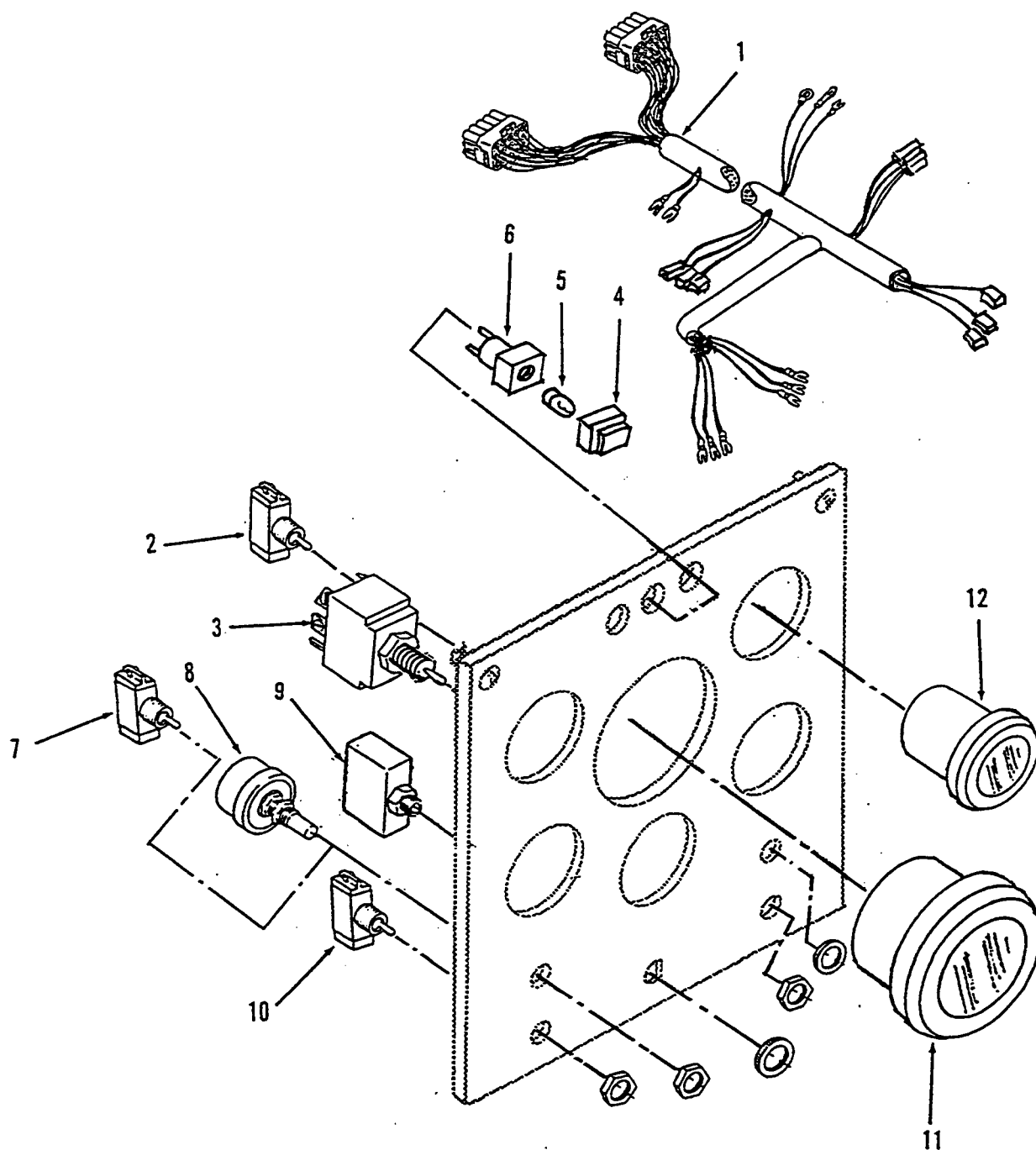
Engine Control Panel  
With L E D Indicator Lights



Engine Control Panel  
With L E D Indicator Lights

REF NO.	CPS PART NO.	CEC PART NO.	QTY USED	PART DESCRIPTION
1	338-2252	3053044	1	Harness, Wiring (Includes items 2 & 3)
2	308-0885-09	3055486	1	Switch, Toggle (CRANK)
3	308-0885-01	102057	1	Switch, Toggle (START/RUN/OFF)
4	870-0451	70646	4	Nut, Self-locking - Hex (#8-32)
5	526-0352	128006	4	Washer, Flat (3/16")
6				Printed Circuit Board (Includes Test Lamp Switch)
	300-3279	3053060	1	5 L E D Indicator Lights
	300-3280	3053061	1	8 L E D Indicator Lights
6A	308-0885-10	3055487	1	Switch, Toggle (LAMP TEST)
7	308-0885-03	3015055	1	Switch, Toggle (RAISE/LOWER)
8	303-0290	3015105	1	Potentiometer (SPEED ADJUST)
9	320-1616	3034953	1	Circuit Breaker
10	308-0885-02	104215	1	Switch, Toggle (RUN/IDLE)
11	302-1855	3031734	1	Tachometer
12				Gauge/Meter
	193-0400-01	3015232	1	Gauge, Pressure - Oil
	193-0401-01	3015233	1	Gauge, Temperature - Oil
	193-0402-01	3015234	1	Gauge, Temperature - Water
	302-1857-01	3015235	1	Voltmeter
	302-1859-01	3035766	1	Hourmeter

# Engine Control Panel With Bulb Indicator Lights

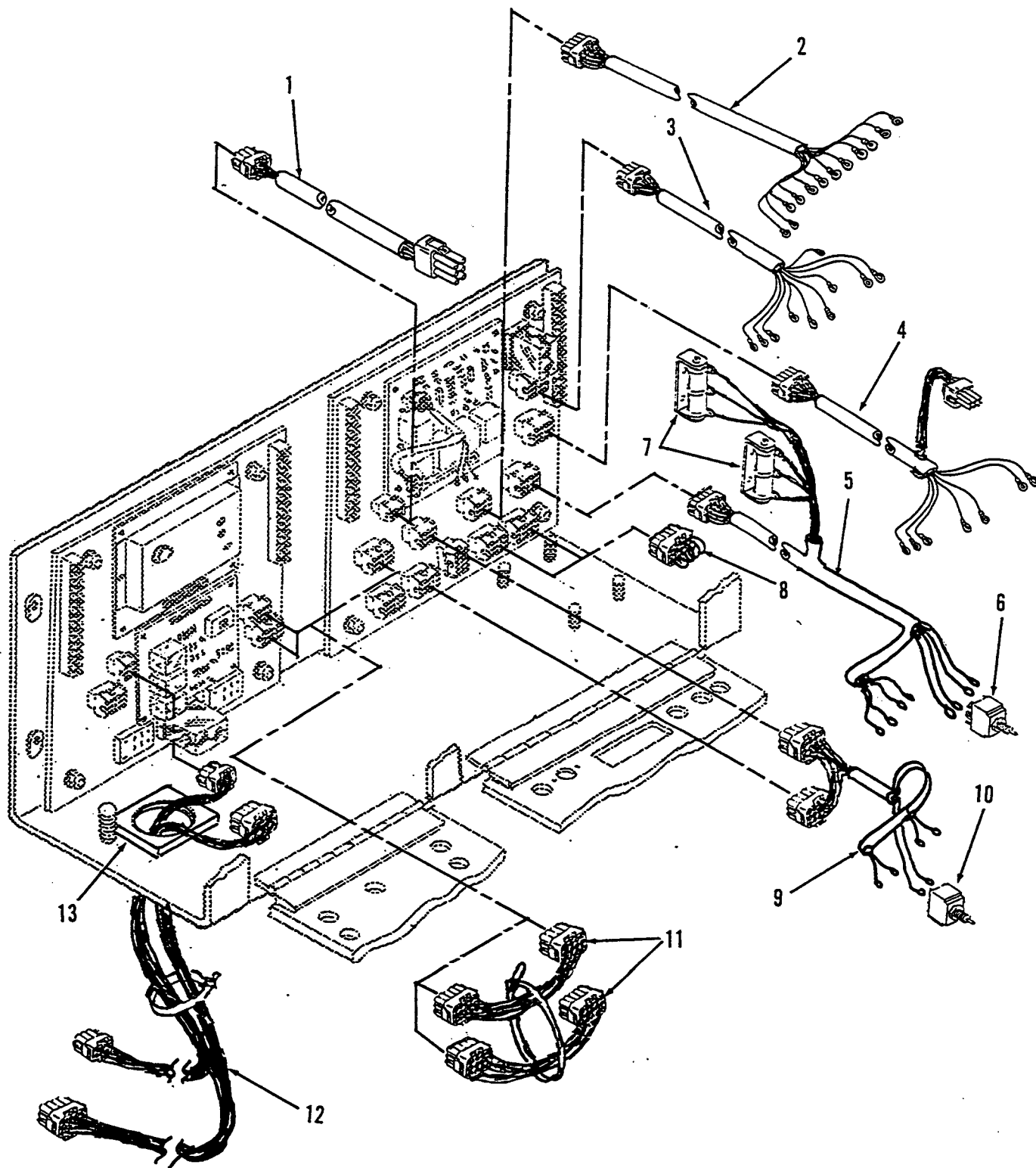




# Engine Control Panel With Bulb Indicator Lights

REF NO.	CPS PART NO.	CEC PART NO.	QTY USED	PART DESCRIPTION
1		3035126	1	Harness, Wiring (Includes items 2 & 3)
2	308-0885-09	3055486	1	Switch, Toggle (CRANK)
3	308-0885-01	102057	1	Switch, Toggle (START/RUN/OFF)
4		3018795	3	Lens, Light (ORANGE)
5		3018799	3	Bulb, Light
6		3018800	3	Socket, Light
7	308-0885-03	3015055	1	Switch, Toggle (RAISE/LOWER)
8	303-0290	3015105	1	Potentiometer (SPEED ADJUST)
9	320-1616	3034953	1	Circuit Breaker
10	308-0885-02	104215	1	Switch, Toggle (RUN/IDLE)
11	302-1855	3031734	1	Tachometer
12				Gauge or Meter
	193-0400-01	3015232	1	Gauge, Pressure - Oil
	193-0401-01	3015233	1	Gauge, Temperature - Oil
	193-0402-01	3015234	1	Gauge, Temperature - Water
	302-1857-01	3015235	1	Voltmeter
	302-1859-01	3035766	1	Hourmeter

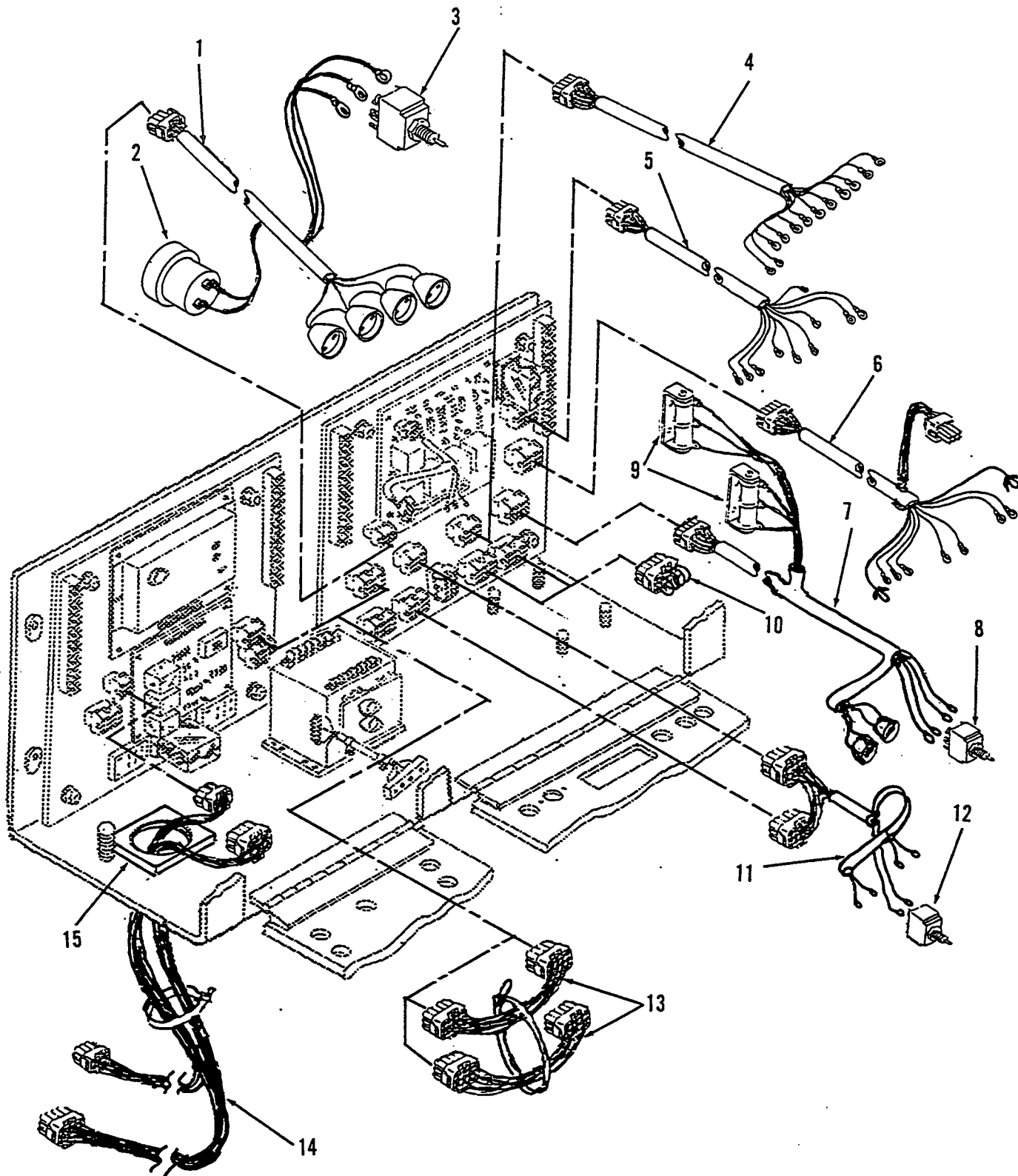
Set Control - Wiring Harnesses  
(Sets With LED Indicator Lights)



**Set Control - Wiring Harnesses  
(Sets With LED Indicator Lights)**

REF NO.	CPS PART NO.	CEC PART NO.	QTY USED	PART DESCRIPTION
1	338-2255	3053048	1	Harness, Wiring (PCB TO LED PCB)
2	338-2258	3056066	1	Harness, Wiring (PCB TO WATTMETER)
3	338-2250	3035147	1	Harness, Wiring (PCB TO VOLT/AMP SELECTOR SWITCH)
4	338-2253	3053046	1	Harness, Wiring (PCB TO AC METER)
5	338-2383	3053033	1	Harness, Wiring (PCB TO RESISTORS AND SYNCHRONIZING SWITCH; Includes The Resistors and Switch)
6	308-0885-06	3015058	1	Switch, Toggle (SYNCHRONIZING)
7		3055739	2	Resistor, Wirewound with Mounting Bracket Attaching Parts for Resistor
	860-0003	3043636	4	Nut, Hex
	850-0010	3043637	4	Washer, Lock - Spring
8	338-2312	3056089	2	Harness, Wiring (HIGH/LOW WYE ADAPTER)
9	338-2256	3056061	1	Harness, Wiring (PCB TO PANEL LIGHTS AND SWITCH; Includes The Switch)
10	308-0885-08	3035149	1	Switch, Toggle (PANEL LIGHTS)
11	338-2248	3035132	1	Harness Assembly, Wiring (ENGINE CONTROL PCB TO GENERATOR CONTROL PCB)
12				Harness Assembly, Wiring - With Shielded Leads (ENGINE WIRING HARNESS TO ENGINE CONTROL PCB; Select Length as Applicable)
	338-2301-03	3053039	1	9.3 Feet
	338-2301-04	3053040	1	11.3 Feet
	338-2301-05	3053041	1	15.3 Feet
	338-2301-06	3053042	1	25.3 Feet
	338-2301-07	3053043	1	50.0 Feet
13	331-0525	204494	1	Gasket, Conduit
14	338-2251	3044442	1	Harness, Wiring (PCB TO GEN TERMINAL BLOCK)

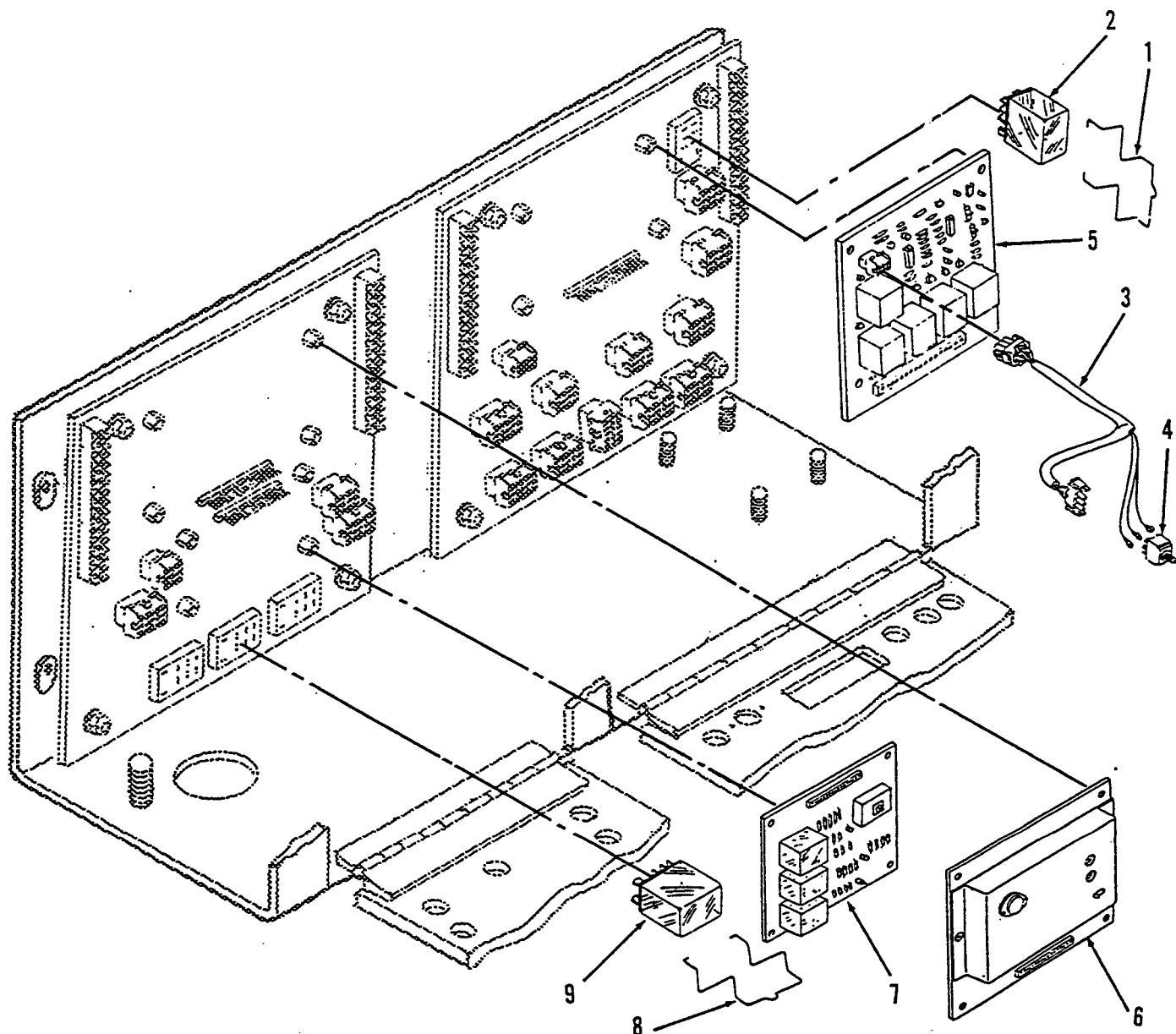
Set Control - Wiring Harnesses  
(Sets With Bulb Indicator Lights)



Set Control - Wiring Harnesses  
(Sets With Bulb Indicator Lights)

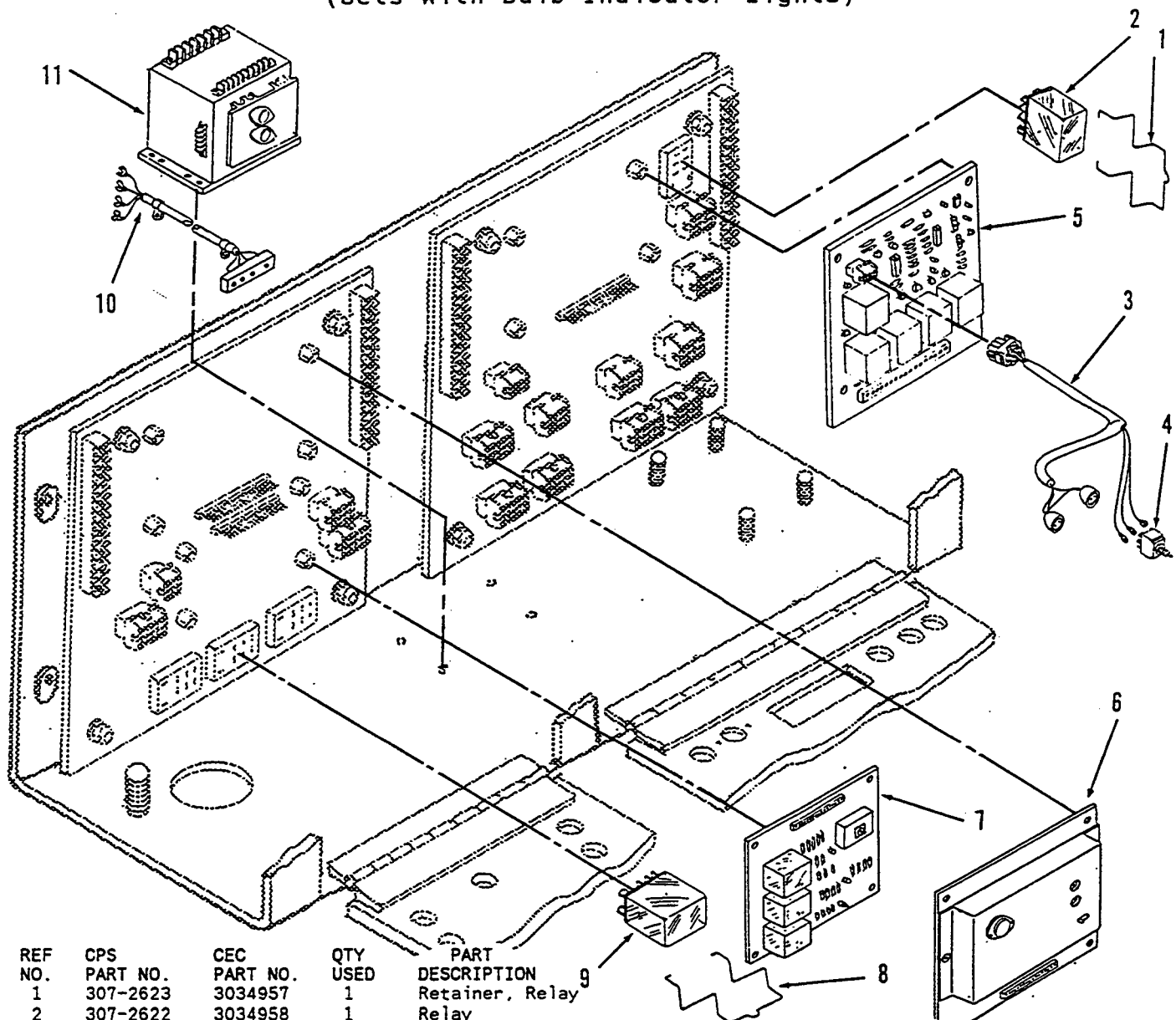
REF NO.	CPS PART NO.	CEC PART NO.	QTY USED	PART DESCRIPTION
1		3035145	1	Harness, Wiring (PCB TO HORN, SWITCH AND INDICATOR LIGHTS; Includes The Horn and Switch)
2		3015118	1	Horn
3	308-0885-04	3015056	1	Switch, Toggle (ALARM SILENCE)
4		3035142	1	Harness, Wiring (PCB TO WATT TRANSDUCER)
5	338-2250	3035147	1	Harness, Wiring (PCB TO VOLT/AMP SELECTOR SWITCH)
6		3035144	1	Harness, Wiring (PCB TO AC METER AND RED INDICATOR LIGHTS; Includes Red Indicator Lights)
7		3035147	1	Harness, Wiring (PCB TO RESISTORS, SYNCHRONIZING LIGHTS AND SWITCH; Includes The Resistors and Switch)
8	308-0885-06	3015058	1	Switch, Toggle (SYNCHRONIZING)
9		3015109	2	Resistor, Wirewound with Mounting Bracket
				Attaching Parts for Resistor
	860-0003	3043636	4	Nut, Hex
	850-0010	3043637	4	Washer, Lock - Spring
10	338-2249	3035140	2	Harness, Wiring (HIGH/LOW WYE ADAPTER)
11	338-2256	3056061	1	Harness, Wiring (PCB TO PANEL LIGHTS AND SWITCH; Includes The Switch)
12	308-0885-08	3035149	1	Switch, Toggle (PANEL LIGHTS)
13	338-2248	3035132	1	Harness Assembly, Wiring (ENGINE CONTROL PCB TO GENERATOR CONTROL PCB)
14				Harness Assembly, Wiring (ENGINE WIRING HARNESS TO ENGINE CONTROL PCB; Select Length as Applicable)
	338-2276-01	3035127	1	5.3 Feet
	338-2276-02	3035128	1	7.3 Feet
	338-2276-03	3035129	1	9.3 Feet
	338-2276-04	3035130	1	11.3 Feet
	338-2276-05	3035131	1	15.3 Feet
13	331-0525	204494	1	Gasket, Conduit

Set Control - Internal Components  
(Sets With LED Indicator Lights)



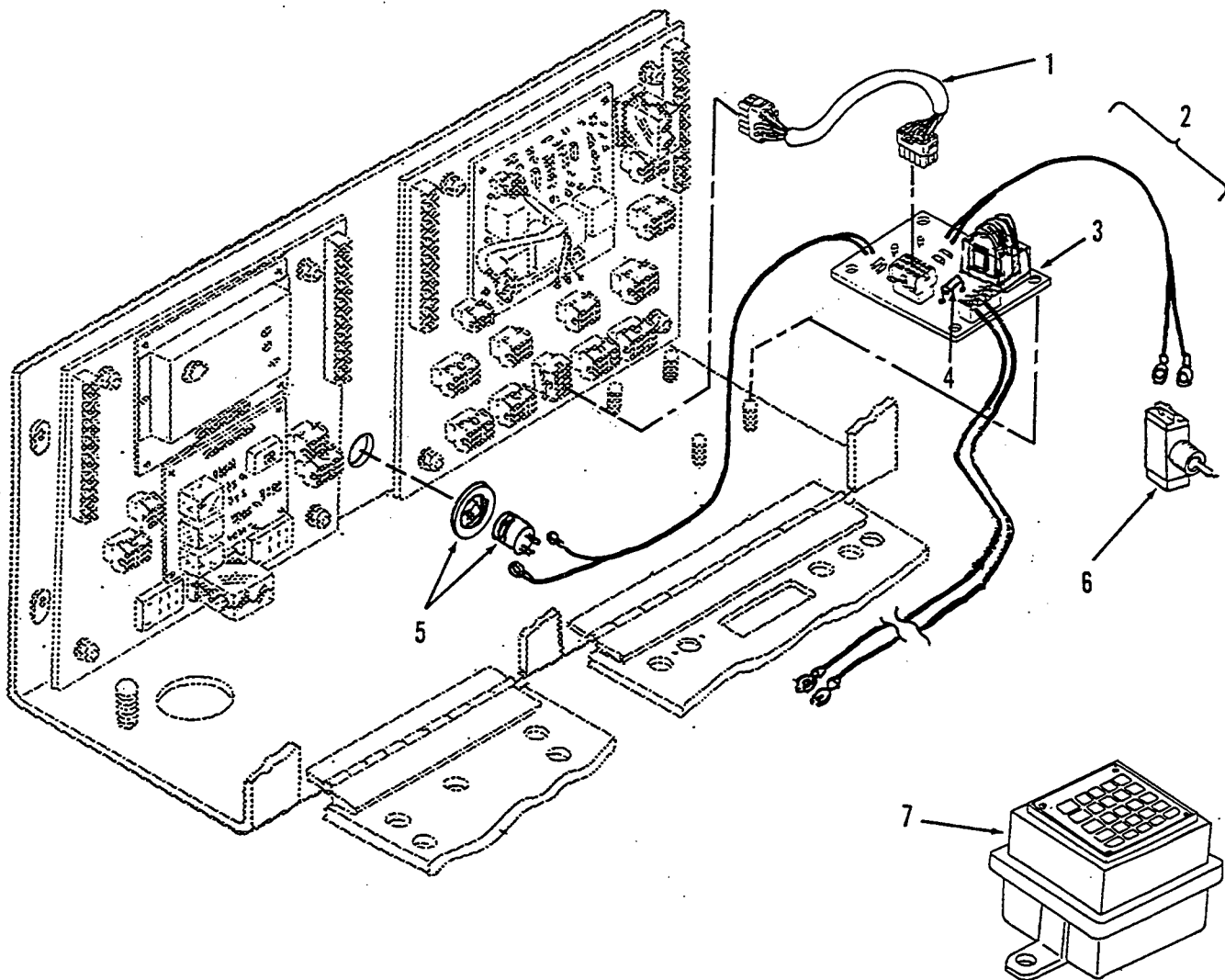
REF NO.	CPS PART NO.	CEC PART NO.	QTY USED	PART DESCRIPTION
1	307-2623	3034957	1	Retainer, Relay
2	307-2622	3034958	1	Relay
3	338-2254	3053047	1	Harness, Wiring - AutoStart to LEDs (Includes Switch)
4	308-0885-05	3015057	1	Switch, Toggle (AutoStart)
5	300-3277	3054341	1	Board, Printed Circuit - AutoStart
				Attaching Parts for Board
	815-0702	70310	4	Screw, Machine - Pan Head (#6-32 x 3/8")
	850-1020	70262	4	Washer, Lock - Spring (#6)
6	151-0634	3044195	1	Control, Governor
				Attaching Parts for Board
	815-0702	70310	4	Screw, Machine - Pan Head (#6-32 x 3/8")
	850-1020	70262	4	Washer, Lock - Spring (#6)
7				Control or Circuit Board (Select as Applicable)
	309-0574	3036453	1	Control, Overspeed
	300-3591	3035015	1	Board, Adapter - Hydraulic Governor
				Attaching Parts for Board
	815-0702	70310	4	Screw, Machine - Pan Head (#6-32 x 3/8")
	850-1020	70262	4	Washer, Lock - Spring (#6)
8	307-2623	3034957	1	Retainer, Relay
9	307-2684	3034962	1	Relay

**Set Control - Internal Components  
(Sets With Bulb Indicator Lights)**



REF NO.	CPS PART NO.	CEC PART NO.	QTY USED	PART DESCRIPTION
1	307-2623	3034957	1	Retainer, Relay
2	307-2622	3034958	1	Relay
3		3035143	1	Harness, Wiring - AutoStart to Bulbs (Includes Switch)
4	308-0885-05	3015057	1	Switch, Toggle (AutoStart)
5	300-3277	3054341	1	Board, Printed Circuit - AutoStart
	815-0702	70310	4	Attaching Parts for Board
	850-1020	70262	4	Screw, Machine - Pan Head (#6-32 x 3/8")
6	151-0634	3044195	1	Washer, Lock - Spring (#6)
				Control, Governor
	815-0702	70310	4	Attaching Parts for Board
	850-1020	70262	4	Screw, Machine - Pan Head (#6-32 x 3/8")
7				Washer, Lock - Spring (#6)
	309-0574	3036453	1	Control or Circuit Board (Select as Applicable)
	300-3591	3035015	1	Control, Overspeed
				Board, Adapter - Hydraulic Governor
	815-0702	70310	4	Attaching Parts for Board
	850-1020	70262	4	Screw, Machine - Pan Head (#6-32 x 3/8")
8	307-2623	3034957	1	Washer, Lock - Spring (#6)
9	307-2684	3034962	1	Retainer, Relay
10		3015019	1	Relay
				Harness, Wiring - Transducer to Wattmeter
				Attaching Parts for Harness
		3018792	2	Screw, Self-Tapping - Round Head
11		3015017	1	Transducer, Watt
				Attaching Parts for Transducer
	867-0028	70273	4	Nut, Hex (#10-32)
	850-1030	70621	4	Washer, Lock - Spring (#10)

# Set Control - Alarm Module



REF NO.	CPS PART NO.	CEC PART NO.	QTY USED	PART DESCRIPTION
1	338-2257	3056062	1	Harness, Wiring - Alarm Board to Gen Control Board
2				Module, Alarm (Includes PC Board, Horn, Switch and Electrical Leads to Horn, Switch and Generator Terminal Board)
	300-3286	3054296	1	Sets with Four Fault Indicators
	300-3287	3054297	1	Sets with Six Fault Indicators
3				Board, Printed Circuit - Alarm Module (Includes Fuse)
	Note 1	Note 2	1	Sets with Four Fault Indicators
	Note 1	Note 2	1	Sets with Six Fault Indicators
				Attaching Parts for Board
	870-0451	70646	4	Nut, Self-locking - Hex (#8-32)
	526-0352	128006	4	Washer, Flat (#/16")
4	Note 3	3062691	1	Fuse
5	333-0133		1	Horn, Electrical - 24VDC
6	308-0885-11	3055738	1	Switch, Toggle
7	333-0405-02	149806	1	Horn, Electrical with PC Board and Weathertight Box for Outdoor Applications. NOT PART OF SET ALARM MODULE!

NOTES: 1. Not stocked as replacement item, order applicable Item 2 for replacement.  
2. Not stocked as replacement item, order applicable Item 2 for replacement  
3. Not stocked as replacement item.